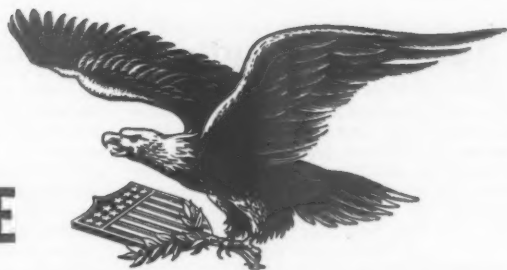


ARMY
NAVY
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JOURNAL

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Services Plan More Dollar Help For Off-Duty School Courses

Armed Forces educational leaders are firming plans to give more financial help to military men attending off-duty classes.

Proposals to expand tuition aid programs are certain to arouse the opposition of both Budget Bureau and Pentagon fiscal officials.

At present, each of the Military Services is authorized to pay up to 75% of the tuition and book fees for personnel who wish to take civilian high school or

college courses in their off-duty time.

The Services are limited, however, to a maximum payment of \$7.50 for each semester hour (Carnegie unit) of credit. Service officials contend that the \$7.50 limit is too restrictive in view of rising tuition costs at civilian colleges and universities.

To compensate for present-day tuition costs, the Tuition Assistance Subcommittee of the Defense Advisory Committee

—Continued on page 29

Army & Air Guard Best Fitted To Bring U.S. Recovery From A-Attack, NGA Is Told

Other NGA Stories on Pages 2, 8, 11, 12, and 25

SAN ANTONIO, TEX.

BECAUSE it has the greatest dispersion of any of the nation's military Forces, the National Guard will "unquestionably" be in the best position to bring about military recovery from a nuclear attack, Maj. Gen. Maxwell E. Rich, of Utah, told the National Guard Association Conference here.

General Rich, Chairman of the Association's Committee on Army Affairs, contended that a nuclear attack on the United States would bring about a situation "in which, in all probability, it will be impossible to move units of the Strategic Army Corps and impossible to sustain the operations of the Strategic Air Command."

But the National Guard, he declared, has trained and equipped units in nearly 2,500 communities in every State, "the greatest dispersion of any of the nation's

—Continued on page 27

Army Falls Behind AF & Navy In Experience At Top Levels

THE Army has surrendered to the Air Force and Navy the critical "experience factor" in top military command slots.

Unless Secretary Wilber M. Brucker and General Lyman L. Lemnitzer, Chief of Staff, take action to modify the strong accent on seniority that has marked selections during recent years for three-star and four-star appointments, the Army is going to fall increasingly behind the other Services in availability of officers with top command experience.

This is of added significance to the aspiration of Army officers for assignments at the highest levels in view of the emphasis on unified and joint commands and the increased stature of the JCS Joint Staff.

The Army's newest four-star officer is General Charles D. Palmer, USMA '24, who on 1 October succeeded his brother, General Williston B. Palmer, USA-Ret, as Deputy CinC of the U. S. European Command.

General C. D. Palmer is 57—four days younger than General George H. Decker, Army Vice Chief of Staff.

Next junior to General Palmer among

four-star officers on the Army list is General Carter Magruder. He was promoted to that rank this summer following four years service as Deputy Chief of Staff, Logistics.

General Magruder, USMA '23, was 59 on 3 April. He is CinC of the United Nations Command, U. S. Forces Korea, and the Eighth Army. There is little likelihood that General Magruder will hold more than this one assignment as a four-star officer.

This is not the case in the Air Force. The junior four-star officer in this service is General Frederic H. Smith, Jr., USMA '29, he was 51 on 30 June. Now CinC of U. S. Air Forces Europe, General Smith appears certain to be given at least one more four-star post before retirement.

The Navy's junior four-star officer is Admiral Robert L. Dennison, CinC of Naval Forces Eastern Atlantic and Mediterranean. A graduate of the USNA '23 class, Admiral Dennison was 58 last April.

In the three-star category, the Air

—Continued on page 28

Tri-Service Group Discusses SAGE System



SENIOR Commanders of the Army, Navy, and Air Force discuss the SAGE air defense system at the first fall meeting of the Armed Forces Communications and Electronics Association, Boston Chapter, at the Charlestown Naval Officer's Club. Left to right are Maj. Gen. William J. Verbeck, Commander, XIII U. S. Army Corps (Reserve), Ft. Devens, Mass.; Capt. John R. Waters, Boston Naval Shipyard; Col. Wilford H. Tetley, Deputy Commander for Engineering, Air Defense Systems Integration Division, L. G. Hanscom Field, Mass.; and Col. Sidney S. Davis, Chairman, Northeastern University Department of Military Science and Tactics.

Army OK's Armed 'Copter Division Tests; No Ban Seen For Air Atomic Weapons

ARMY AVIATION CENTER
FORT RUCKER, ALA.

THE Army has given a green light—long sought by its aviators—for the start of division tests with serial combat reconnaissance companies.

The first division trial involving armed helicopters will be conducted by the Second Infantry Division at Ft. Benning, Ga., beginning in January.

Also scheduled early next year are troop trials with an armed experimental helicopter company in the Second Armored Division at Ft. Hood, Tex.

The decision to authorize the tests marks a victory for the Army Aviation Center, which has championed such a proposal for several years.

As a result of action by General Henry I. Hodes, former Commander-in-Chief of U. S. Army Europe, now retired, the Seventh Army Division in Germany all have armed helicopters, but these are

not organized into companies as is envisaged here.

Looking to the future, Army Aviation Center combat development planners are at work on a proposal for creation of an Air Mobile Task Force. It would be composed of about 4,000 combat and support soldiers—all of them air-mounted—and employing about 631 aircraft.

A JOURNAL reporter visiting here this week asked Brig. Gen. Ernest F. Easterbrook, Center Commander, if his combat development people, under Lt. Col. John Oswalt, are under any restraint in planning for the possible use of tactical nuclear weapons aboard Army Helicopters or other air vehicles that might be employed in the 1965-75 time period.

General Easterbrook said it is "perfectly logical" to assume that as nuclear weapons become capable of further reduction in size, they will be adopted for

—Continued on page 24

Allied Team At Caribou Delivery Ceremony



Hands across the border—and the ocean, too—as the U. S. Army took delivery of the first Caribou aircraft from the deHavilland Aircraft of Canada. Shown left to right at the delivery ceremonies are deHavilland Canada Managing Director P. C. Garratt; Lt. Gen. Arthur G. Trudeau, USA, Chief of Research and Development; Sir Aubrey Burke, Chairman of the Board, deHavilland Holdings Ltd. of England; and Maj. Gen. J. V. Allard, Canadian Army Vice Chief of Staff. (Story on page 31)

Legislative Committee Warns National Guard Against Attitude At "Certain" DoD Levels

SAN ANTONIO, TEX.

THERE is an "utter disregard of Congressional dictates and lack of support rendered to the Guard at certain levels of the Defense establishment," according to a report of the Committee on Legislation of the National Guard Association submitted during the Association's Conference here.

"Experience indicates," the report stated, "that this is a continuing attitude and one which should keep us ever on the alert."

The report was submitted by Maj. Gen.

Carl L. Phinney, Texas Army National Guard, Chairman. Brig. Gen. Chester A. Charles, New Jersey Air National Guard, is Vice Chairman of the Committee.

The warning followed the Committee's report on the Defense Department's failure to recommend supplemental appropriations to make up the shortage of funds necessary to complete the Army National Guard's FY '59 program. This action was cited by the Committee as illustrating the attitude at "certain levels" of the Defense establishment.

The Committee account of this situation follows:

"Early in March, the Secretary of Defense advised the Chairman of the House Appropriations Committee by letter that the Army National Guard was short approximately \$13.2 million of funds necessary to complete its Fiscal Year 1959 program. He offered no constructive solution to the problem and declined to request that these additional funds be included in the supplemental appropriation bill then before the Committee. On the contrary, he suggested that reductions be programmed in the remaining number of authorized unit training assemblies and that additional cuts be made

in other areas. A copy of this letter was forwarded to Mr. Vinson of Georgia, Chairman of the Armed Services Committee of the House, who immediately and in no uncertain terms communicated his displeasure concerning the situation and the departmental recommendations to Mr. Cannon, Chairman of the House Appropriations Committee.

"With the assistance of certain States, the House Appropriations Committee was prevailed upon to include \$10.3 million of the shortage in the supplemental appropriations bill. Subsequently, Secretary of the Army Brucker appeared before the Appropriations Committee of the Senate and made an impassioned and superb statement in behalf of the Army National Guard and in support of adding the additional \$2.9 million to make up the complete deficit. The Senate forthwith included that amount, but in Conference between the Senate and House the final amount was compromised to \$11 million."

RESISTS OPPOSITION

SAN ANTONIO, TEX.

Governor Price Daniel of Texas, in welcoming the National Guard Association Conference here, said that he was perplexed by the attitude of "some in our military organizations" toward the National Guard.

"When I became U. S. Senator from Texas," he said, "it was apparent that some in our military organizations did not look with much favor on expanding the strength and increasing the efficiency of the National Guard. Their actions perplexed me, because I knew some of them had commanded National Guard units or experienced reliefs by National Guard units in combat."

"Perhaps these misguided individuals did not realize the importance of the dual functions of the National Guard. I, therefore, kept abreast of your problems and was happy to aggressively resist any attempt to weaken your effectiveness."

B/G Chappell Chosen Records Center Chief

Brig. Gen. Julian M. Chappell, Deputy Chief of Operations of the Continental Air Command, Mitchel AFB, N. Y., will become Commander of the Air Reserve Records Center at Denver on 1 December.

General Chappell, USMA '31, will succeed Brig. Gen. Winslow C. Morse, who is retiring.

Ordered to USAF Headquarters in 1950, General Chappell was assigned legislative liaison duties and the following July was appointed a member of the Senior War Plans Team of the JCS Joint Strategic Plans Group. He was named Assistant Director of the Joint Strategic Plans Group in June 1953.

Assigned to Japan in August 1954, General Chappell served as Assistant Deputy for Operations with the Far East Air Force at Tokyo. Early the following year he was appointed CofS of the Seventh Air Force at Wheeler AFB, Hawaii. He was named Commander of the Seventh AF in July 1955.

General Chappell served in that capacity until his appointment in July 1957 to ConAC.

L/C Bellemere Gets Sqdn.

Lt. Col. David G. Bellemere has assumed command of Headquarters Squadron, 4060 Combat Support Group at Dow AFB, Me. He relieves Maj. John C. Antonik, now Base Director of Administrative Services.



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URGENT PROBLEMS RELIABLY SOLVED

Reserves Back Army Strength Increase

The Reserve Officers Association completed its 37th annual meeting in Kansas City, Mo., 11 October with a strong request for increases in the active Army, the Army National Guard and the Army Reserve.

No increases were asked for Air Force or Navy Reserve strength.

In a resolution at the meeting, the ROA urged continued support of strong Army components, including 925,000 men in the Active Army, 425,000 in the Army National Guard and 325,000 in the Army Reserve.

Current authorized strength is 870,000 for the Active Army, 400,000 for the National Guard and 300,000 for the Reserve.

No increases were asked for the Navy or Air Force Reserve Forces, officials said, because they felt they could not secure the support of those Service Secretaries for the higher strength figures.

Both the Navy and Air Force plan manpower reductions during Fiscal Year 1961.

In other resolutions, the Association urged more funds to spur weapons' modernization, special airlift for at least one STRAC unit, better housing for bachelor officers, strong support of the present commissary and PX system and more modern facilities for the Reserve components.

To further bolster the Reserve training program, the ROA also urged the establishment of a separate budget to provide administrative assistants to Reserve units, a stable input of 45,000 six-months' trainees in the Army Reserve Program, and retirement adjustments for Reservists.

M/G Lewis Heads AF Security Service

Maj. Gen. Millard Lewis has assumed command of the USAF Security Service in San Antonio.

He succeeded Maj. Gen. Ackerman, who took command of Security Services when Maj. Gen. Gordon A. Blake departed in early August for an assignment in the Pacific Air Forces.

General Lewis, USMA '30, relinquished his post as Senior Air Force Member, Weapons

Systems Evaluation Group, Office of the Secretary of Defense, to head the Security Service.

Mrs. Lewis is the former Miss Dorothy Ray of Pettus, Texas. Her two brothers, Haggard and George Ray, operate the family Bonny View ranch there.

General and Mrs. Lewis have three children, Millard, jr., George Ray, and Susie.

Col. Laughlin Leaves Nellis

Col. Joseph L. Laughlin, Commander of Nellis AFB, Nev., becomes Twelfth Air Force CofS at Waco, Tex., effective 26 October.

Col. Frank E. Sullivan, AB Group Commander at Nellis, has been named interim Commander pending the arrival of Brig. Gen. John N. Ewbank, jr., in November.

Col. Orren B. Hanson, Installations Group Commander, is Colonel Sullivan's replacement.

AF Officer At Aerojet Wins Commendation Medal

1st Col. Robert K. LeBeck, participating in the Air Force's Training-With-Industry Program at Aerojet-General Corporation, Azusa, Calif., has been awarded the Air Force Commendation Medal for meritorious service while stationed at the ARDC Arnold Engineering Development Center, Tullahoma, Tenn.

Approves Increased Army Use Of MATS, Further MSTs Reductions Are Possible

Secretary of Defense Neil McElroy has given the Army the green light to step up its air shipment of troops overseas via the Military Air Transport Service.

The decision will mean a decrease in Army use of the Navy's Military Sea Transport Service.

As reported earlier in THE JOURNAL, the Army's proposal to increase its use of MATS had been received with mixed feelings by the Joint Chiefs of Staff, who were unable to agree on the subject.

While Army officials pointed to the greater economy and manpower savings

they could achieve with stepped up air shipment, the Navy insisted that the increased air transport would seriously harm the operations of MSTs.

Both MATS and MSTs are operated under the industrial funding principle, whereby the cost of moving each passenger or piece of cargo must be accounted for and paid by one of the Military Departments.

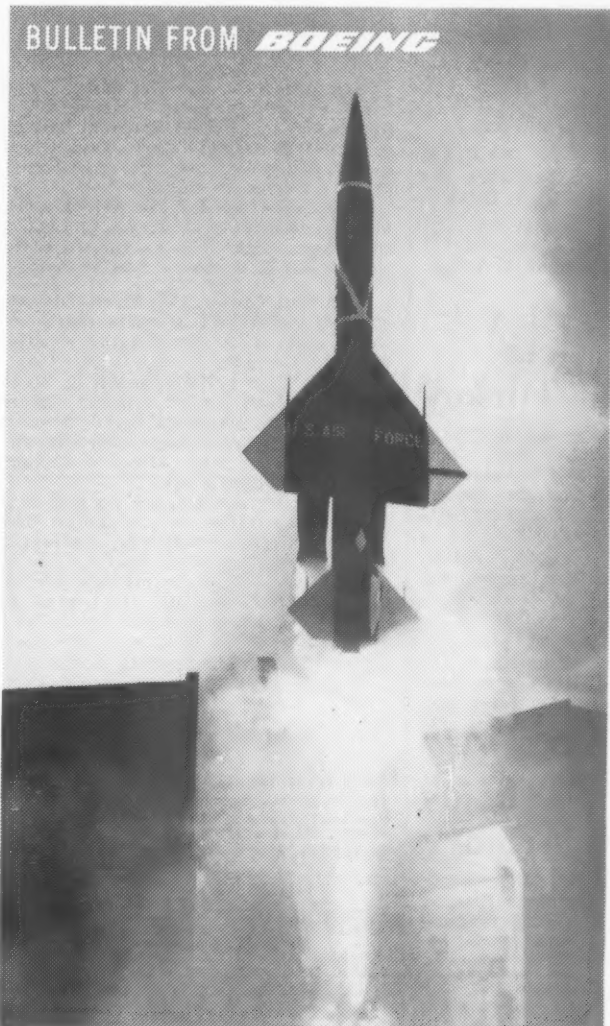
The move to increase air shipment could mean a further reduction in the MSTs operating fleet, in addition to the deactivation of six transports scheduled

by January. Throughout Fiscal Year 1960, MSTs had planned to operate 17 transports.

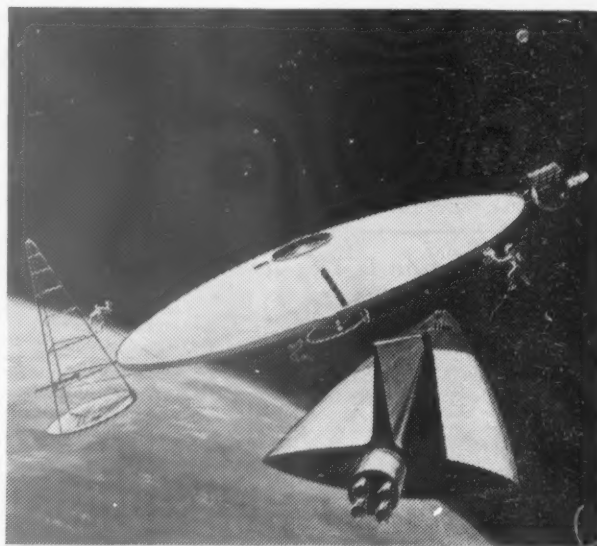
Still to be decided by the Defense Department is the exact proportion of overseas transport which will be accomplished by MATS and MSTs.

Defense Department officials hope to arrive at a division of passengers between MSTs and MATS by January.

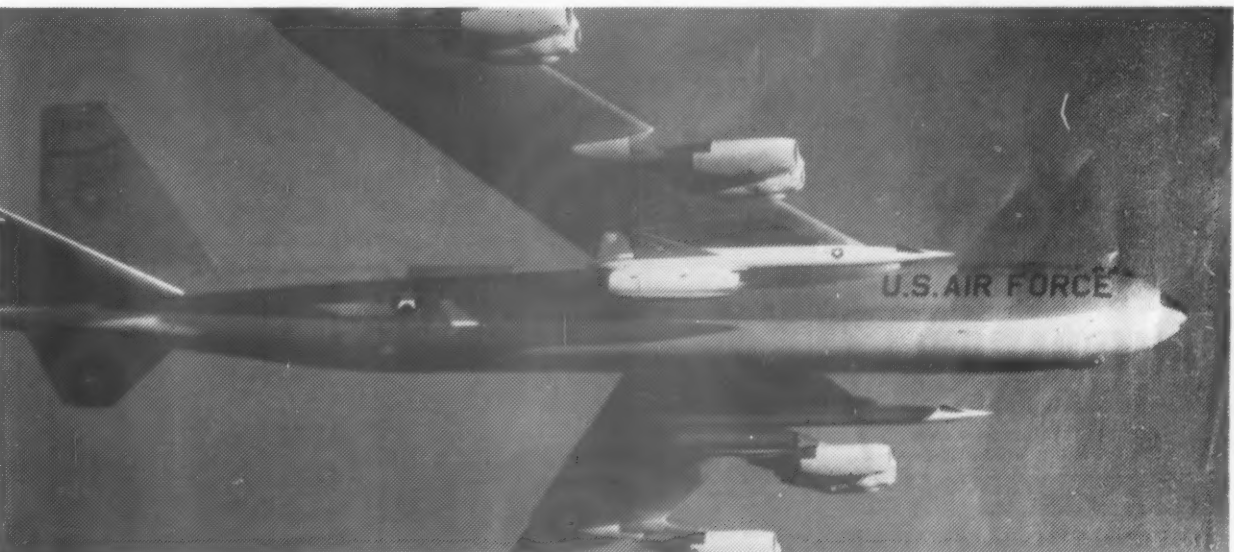
To handle the new airlift requirements, Military Air Transport Service officials plan to make increased use of commercial carriers, rather than adding additional military aircraft to their overseas routes.



SUPERSONIC SKY FIGHTER. Boeing BOMARC is the longest-range defense missile under production for the U.S. arsenal. The advanced "B" model is designed for a range of more than 400 miles, which will enable the Air Force's BOMARC missile system to defend large areas against attacking aircraft. Other missile programs at Boeing include the Air Force's planned advanced solid-propellant intercontinental ballistic missile, Minuteman, for which Boeing is contractor for assembly and test.



MARS VEHICLE. Drawing of Martian space vehicle based on advanced study by Boeing scientists. Launched from an orbiting platform, vehicle would make reconnaissance trip to Mars and return, propelled by an ion accelerator receiving energy from the sun by means of solar cells. A "memory" pre-programmed into the vehicle would correct flight-path deviations. Other advanced Boeing space studies include lunar systems, orbital systems, space vehicles and interplanetary systems.



AIR-BORNE MISSILE LAUNCHER. The Boeing B-52G brings unprecedented mobility to the missile field, carrying supersonic Hound Dog missiles for in-flight launching toward targets several hundred miles away. In addition to missiles, the B-52G can carry a nuclear bomb load, and on a retaliatory defense mission could strike several targets thousands of miles apart. The B-52G missile-launcher-bomber is the Air Force's most versatile long-range weapon system.

BOEING

Tripartite Army Aviation Conference at Rucker



THE Army Aviation Center at Ft. Rucker, Ala., was the scene of the first Army Aviation Tripartite Conference specifically designed to acquaint Army Aviators from Canada, Great Britain, and the U. S. with a standardized system of operating together on a battlefield.

The U. S. Chairman was Brig. Gen. Ernest F. Easterbrook, CG of the Army Aviation Center. Col. Robert H. Schulz, Director of Instruction; Lt. Col. John W. Oswalt, head of the Combat Development Office; and Lt. Col. Walter J. Borden, G-3, were coordinators.

Shown above, left to right, are Maj. T. A. Richardson, United Kingdom; Colonel Oswalt; Lt. Col. Raymond Johnson, Director of Rotary Wing Training and Maj. Sam M. Pinkerton of Canada.

Capt. Martin At Stetson

Capt. Henry F. Martin has assumed duties as Assistant Professor of Military Science and Tactics with the ROTC at Stetson University, Deland, Fla., after a tour in Germany.

Captain Martin and his family reside at 912 East Wisconsin Avenue, Deland.

Col. Gillespie Is Deputy

Col. Kenneth W. Gillespie is the new Deputy Commander of the Army Transportation Terminal Command, Pacific at Ft. Mason, Calif., after duty in Europe.

He succeeds Col. Carroll K. Moffatt, USA-Ret.

Col. Prince Gets Duty In Turkey

Col. William R. Prince has left duty as Ft. Hood, Tex., Deputy Post Commander for temporary duty in Washington, D. C., in preparation for assignment in the office of the U.S. Army Attache in Ankara, Turkey.

New Deputy Post Commander will be Col. Frank F. Carr, former Commander of Combat Command B, 2d Armored Division.

Colonel Prince, USMA '36, also was Commander of Combat Command B before becoming Deputy Post Commander and Commanding Officer, U.S. Army Garrison, last February.

Col. Medinnis Heads Springfield Armory

Col. C. L. P. Medinnis, Commanding Officer of the Chicago Ordnance District since March 1956, has been reassigned to command the Springfield, Mass., Armory.

Succeeding Colonel Medinnis is Lt. Col. James R. Mills, Jr., Deputy Commanding Officer and Chief of the Operations Division, Chicago Ordnance District.

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Army Aviation Notes

Camp Gary, Tex., Fixed Wing Aircraft School, was closed officially 30 September. Operated under Wm. J. Graham and Son, Inc. for the past three years, the school is now located at Ft. Rucker, Ala.

The Air National Guard's 122d Tactical Fighter Wing, Baer Field, Ind., has been selected as the first Air Reserve Forces unit ever to participate in a Firepower Demonstration. The 122nd will stage a demonstration 17 October at Ft. Sill, Okla. Its commander is Brig. Gen. William R. Sefton.

An Army Aviation Officer Career Program designed to develop qualified commissioned officers for all phases of Army Aviation and to provide career opportunities for aviation officers commensurate with their capabilities has been announced in newly issued AR 600-105.

Maj. Francis J. Stevens has assumed duties as Acting Deputy Aviation Officer, Fourth Army, Ft. Sam Houston, Tex. He reported from Camp Gary, Tex., where he served the last three years as Executive for Administration.

With his wife, Alice, and five children, Mary, 7, Joseph, 6, Deborah, 5, Lisa, 2, and Donna, eight months, the major resides at 327 E. Huisache, San Antonio.

Brig. Gen. Clifton Von Kann, Director of Army Aviation, has completed a one-week visit of Seventh Army aviation units in Germany.

Accompanied by Col. Russell E. Whetstone, Seventh Army Aviation Officer, General Von Kann surveyed Seventh Army aviation operations in the field with Corps, Division and Armored Cavalry Regiment commanders.

"Seventh Army has the biggest aviation concentration of any Army unit, therefore, it is of particular interest to us," General Von Kann said.

"One of my objects in my new job," he reported, "is to establish the overall deployment of Army aviation for the next several years. My visit will give me a better insight into Seventh Army capa-

bilities and requirements. This along with ideas from local commanders to improve existing programs will enable me to develop a more realistic program for the future."

The Aviation Director said he wants to make certain "that the principal effort of Army aviation goes into serving the combat units. Unless we place the main emphasis into helping the line units perform their mission better, we have no excuse for existence."

VIII CORPS CHIEF

Maj. Gen. C. Stanton Babcock has assumed command of the VIII Army Corps (Reserve) in Austin, Tex.

He commands more than 120,000 Army Reservists, as well as all active Army personnel assigned to the Corps headquarters, the 22 area command offices, and three sector commands throughout the States of Texas and New Mexico.

General Babcock, USMA '25, recently returned from Paris, France, where he was Chief of the Joint MAAG. Prior to this assignment he commanded the 2d Armored Division.

General and Mrs. Babcock, the former Jadwiga Noskowiak of Carmel, Calif., reside at 3501 Cherry Lane in Austin.

They have two children, a daughter, Barbara, who is presently at Wellesley College, and a son, Conrad, who has just entered the University of the South upon completion of a tour of military service with the Army at Ft. Dix, N. J.

Maj. Clanton At Ft. Sam

Maj. David L. Clanton has assumed duties as Chief of the Material Division Ordnance Section, Fourth Army, at Ft. Sam Houston, Tex.

With his wife, Diana, and three children, Diana Louise 16, Geraldine 15, and Jane Ann 6, he resides at 214 Winderes Dr., San Antonio.

U. S. ARMY ORDERS

Wilbur M. Brucker—Secretary of the Army
Hugh M. Milton, II—Under Secretary of the Army
Dowey Short—Assistant Secretary (Manpower & Reserve Forces)
Courtney Johnson—Assistant Secretary (Logistics)
George H. Roderick—Assistant Secretary (Financial Management)
Richard S. Morse—Director, Research and Development
General Lyman Lemnitzer—Chief of Staff

GENERAL OFFICERS—

Maj General

Biddle, William S, Seoul, Korea, to Hq Fifth USA, Chicago.

Brig General

Pugh, John R, Wash, DC, to EUSA, Seoul, Korea.
Jensen, Walter A, EUSA, to USAARMS, Ft Knox.
Bessell, Prof William W, Jr, apt Dean of Academic Board, USMA, w/rank of Brig Gen fr 1 Oct '59.

General Officer Appointments

To Brig General in RA

W/DR as indicated:

Hartford, Thomas J, MC, 3 Apr '59.
Ramsey, Raymond R, MPC, 28 Sep '59.

INFANTRY—

Colonel

Mikkelsen, William H, Phoenixville, Pa, USATC Inf, Ft Jackson.

Lt Colonel

McDaniel, Wallace A, Ft Knox, to Co C S Det USALS, Presidio of Monterey.
Carberry, Edmund J, Ft Benning, to OAC USA, Wash, DC.
Norwood, Roger M, Wash, DC, to Japan.
Sandoz, Thomas R, Ft Sam Houston, Korea.
Kenworthy, Max R, Ft Myer, to Hq MD USA, Wash, DC.

Major

Bayliss, James C, Auburn, NY, to USA AF, GRU, Korea, Yongsan.
Wallace, John A L, Ft Dix, to Korea.

Captain

Deuel, Orrin H, Ft Gordon, to USARCAB (Panama).
Rafferty, Robert R, Monterey, Calif, to SE AF.
Morrison, Homer W, Rock Hill, SC, to T Sp Forces, Ft Bragg.
Rockwell, James M, Ft Rucker, to France.
Karo, Peter K, Ft Ord, to USA ADG Korea, Yongsan.
Graham, Harry C (AS), Monterey, Calif, US ASA Europe, Frankfurt.

To Germany

Clark, Norman S, Ft Meade.
Bokor, John A S, Ft Leonard Wood.
Wagner, Stanley G, Ft Riley.
Lowe, Nicholas C, Ft Campbell.
Ammons, John D, Ft Jackson.
Blomstrand, Robert N, Ft Jackson.
Butcher, Arthur J, Ft Riley.
Clancy, Daniel, Jr, Ft Devens.
Coker, Walter R, Ft Campbell.
Conkel, Ronald P, Ft Knox.
Cope, Harmon F, Jr, Ft Leonard Wood.
Crane, Julius A, Ft Leonard Wood.
Davis, James E, Baltimore, Md.

OFFICERS, NCO's (E-6 and above)

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NAME

ADDRESS

Col. Cox Heads Leavenworth Barracks

Col. Weldon W. Cox is the new Commandant of the Disciplinary Barracks at Ft. Leavenworth, Kans.

He replaces Col. James W. Davis, USA-Ret.

Prior to his Leavenworth assignment, Colonel Cox was Commandant of the US Disciplinary Barracks at Lompoc, Calif.

He and his wife, Renata, and their two children, Elizabeth Ann, 7, and Weldon Andrew, 4, reside at 20 Riverside, Ft. Leavenworth.

To Germany

Kinghorn, Alan, Monterey, Calif.
Andrews, Everett G, Ft Bragg.

1st Lieutenant

Walker, Earl B, Jr, New Britain, Conn, to
Hq 7th Arty Gp, Thule, Greenland.

To Korea

Mayers, Stewart E, Ft Sill.
Stewart, Robert C, Ft Carson.

To Germany

Sigmon, Maurice E, Ft Hood.

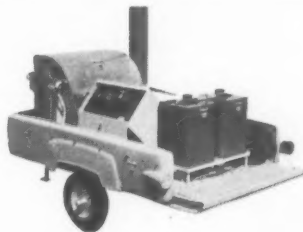
To Korea

From Ft Sill:
Ward, Joseph G, 2d Curtis, Billy J

—Continued on page 13

SUPPORT!

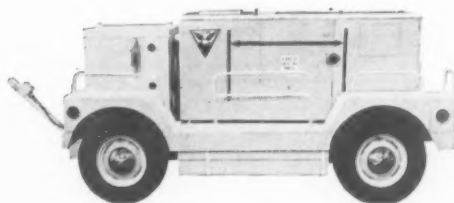
Solar skills and capabilities cover full range of support equipment



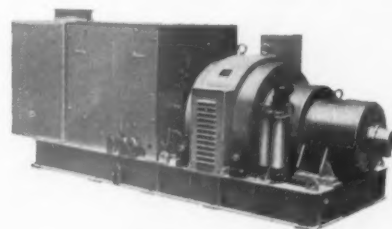
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Smith, Thomas S, Ft Bragg.
Baker, John R, Ft Campbell.
Hough, John J, Ft Dix.
Wade, Albert S, Ft Devens.
Halko, Gerald J, Ft Leonard Wood.
Haley, Charles A, Jr, Ft Gordon.
Evangelos, Ft Lewis.

2d Lieutenant

Widder, David J W, Ft Dix, to 82d Abn Div,
Ft Bragg.
Cetino, Robert M, Ft Knox, to 1st SP
Forces Gp, Okinawa, Ryukyu Is.

To Korea

Gorgan, Geika J, Ft Benning.
From Ft Rucker:
Johnson, Joe D Rast, Gary F
Sore, James A

To Germany

Bruse, Edward W, Ft Hood.
Washington, Willie J, Ft Dix.
Horn, Frederick N, Ft Dix.

ARMOR—

Colonel

Davis, Kelton S, Ft Knox, to Stu Det Co C
USALS, Presidio of Monterey.

Major

Mer, Jack K, Independence, Kans, to US-
ATC Armor, Ft Knox.

Captain

Smellus, Lowell, Ft Holabird, to USATC
Armor, Ft Knox.
Croll, George E, Ft Hood, to USAARMS,
Trp, Ft Knox.

1st Lieutenant

Swcomb, Eugene E, Ft Devens, to 2d BCT,
Keflavik, Iceland.

Hines, Merrel E, Ft Benning, to Korea.

From Ft Rucker to Station Indicated

Antau, William M, 17th Avn Co, Ft Ord.
Add, Alexander S, 101st Abn Div, Ft Camp-
bell.

To Korea

ady, Charles W, Ft Riley.
Jckens, Waverley J, 3d, Ft Knox.
Bramis, George J, Jr, Ft Benning.

B/G Pugh Will Join 8th Army; B/G Jensen Moves

Brig. Gen. John R. Pugh, Deputy Di-
rector of Management Analysis, Office,
Comptroller of the Army, will be as-
signed to the Eighth Army in Korea in
December.

Brig. Gen. Walter A. Jensen, Deputy
ChS for Plans and Operations, Eighth
Army, will report to the Armor School,
Ft Knox, Ky., in December. Orders an-
nounced in July assigning General Jensen
to the 2d Armored Division, Ft Hood,
Tex., have been cancelled.

Hendricks, Thomas E, Ft Stewart.
Turner, George J, Ft Sam Houston.
Hines, Richard C, Ft Knox.

To Germany

Crittenden, Oliver H, Ft Hood.
Schelder, Arthur W, Jr, Ft Knox.
Caso, Gregory F, Ft Benning.
Cushman, Arnold W, Ft Knox.
Walsh, John M, Ft Benning.
Swiler, James D, Ft Lewis.
Hepkins, Richard K, Ft Knox.
Hepburn, James D, Ft Knox.
Hart, William L, Ft Lewis.

2d Lieutenant

ance, Guy R, Ft Meade, to Germany.

From Ft Rucker to Station Indicated

Henson, Thomas C, CC A 1st Armd Div, Ft
Hood.
Halmayer, Joseph L, USA Gar, Ft Jackson.
Johnson, Alvin F, 4th Inf Div, Ft Lewis.

St. Kenneth E, Jr, 2d Inf Div, Ft Benning.

Heming, Thomas E, 6th Armd Cav Regt, Ft
Knox.

Hobbs, Roger S, 6th Armd Cav Regt, Ft
Knox.

Amuel, Dwight C, 2d Armd Div, Ft Hood.

Selevitz, William A, Jr, 2d Inf Bde, Ft
Devens.

Emple, Robert E, Jr, 82d Abn Div, Ft Bragg.

ARTILLERY—

Lt Colonel

Stuart, Anthony K, Jr, Wash, DC, to OUS-
ARMA Am Emb, Phnom Penh, Cambodia.
Hart, William D, Wash, DC, to OUSARMA
Am Emb, Karachi, Pakistan.

Hemeski, Stanley V, Bern, NC, to USA Elm
MAAG, Cambodia.

Major

Frankenfield, Kenneth V, Ft Totten, to USA
Elm USMTMSA, Riyadh, Saudi Arabia.

Captain

er, Richard H, sr, Ft Bliss, to USA Elm
USMTMSA, Riyadh, Saudi Arabia.

Drive Launched To Reduce Nuclear Noise; Submarine Thresher To Feature "Silencer"

DAVID TAYLOR MODEL BASIN,
CARDEROCK, MD.

HIGH priority is being given by the Navy to the problem of providing the Fleet with advanced types of submarines that will run deeper and more quietly than classes now in operation.

"The noise generated by undersea craft is becoming a major part of the threat we face," RADM. Ralph K. James, Chief, Bureau of Ships, told reporters who toured the test facility here last week.

As a result of work conducted by scientists and engineers, here, full-scale tests of a new approach to making submarines more silent will get underway in the nuclear submarine Thresher (SSN-593).

Thresher is scheduled for commissioning in December 1960.

Admiral James revealed that the Thresher power plant is being fitted with a rubberized cushion that will reduce the amount of noise generated by the contact of moving gears and bearings.

Another approach to the noise reduction problem, he said, is to decrease the tolerances of rotating shafts. "We used to think in terms of thousandths of an inch," he said, "but now are talking in terms of millionths of an inch in rotating shafts."

The BuShips Chief said there is a trend toward constructing submarines capable of operating tactically at greater depths.

Conventional ring-stiffened cylinders of different steels are being studied by Basin scientists. In addition, unconven-

tional hull configurations of varying types of sandwich construction—possibly fiberglass—are under consideration.

"One of the more promising methods of obtaining a structurally efficient hull," Basin officials said, "is by using bimetal construction."

Tests are being conducted to determine if high-strength aluminum and steel can be married in future submarine hulls. One of the major obstacles to the use of aluminum and high-grade steel is the difficulty of welding the metals together. At present the two metals must be bolted, a feature that the Navy considers a disadvantage in light of the fact that submarines may be brought under attack by enemy depth-charges.

At the Basin, continuing underwater explosion tests on submarine models are conducted to test the effects of blasts of depth charges.

During a tour of the Basin, reporters witnessed a scale explosion of a charge against the hull of a 1/10th scale model section of a Polaris submarine. Purpose of this particular test was to determine the effect the explosion would have against the missile firing section and component parts of the missile, which are inherently delicate.

Because small-scale tests are inexpensive and simple to conduct, a wide variety of combat conditions can be simulated. After completion of an actual submarine, scientists conduct full-scale tests to verify model results.

In the Basin's hydrostatic pressure tank, experiments are conducted with models of proposed designs to ensure that the design is capable of operating at desired depths. These tests assure the safety of crews who operate the subs.

Use of the pressure tank has given the Navy improved pressure hulls for such submarines as the attack submarine Thresher, and the Fleet Ballistic Missile submarine George Washington, lead ships of their classes.

SQUIBB PLAQUE

The pharmaceutical firm of E. R. Squibb & Sons has awarded the Naval Hospital, San Diego, a special plaque signifying the filling of 2,000,000 prescriptions during the four year period September 1955 to August 1959.

The plaque was presented to Cdr. John J. Beretta, Chief Pharmacist at the hospital, by G. A. Christopherson, Divisional Sales Manager for Squibb and the local Squibb sales representative, J. D. Reinhold.

Hornet & Randolph Win Efficiency Prizes

Admiral Arleigh A. Burke, CNO, has awarded the Marjorie Sterret Award to the support aircraft carriers USS Randolph and USS Hornet.

\$500 checks go with the Award to be used for the recreation fund of the ships' crews.

The Marjorie Sterret Award is made annually to two ships—one in the Atlantic and one in the Pacific—that score highest in battle efficiency competition. The award is rotated each year among types of ships. This year's contest was limited to ships administratively assigned to air type commands.

The Marjorie Sterret Award was established soon after WWI and was named for a child who sent a dime to the New York *Herold Tribune* "to help build a battleship for Uncle Sam."

Capt. O'Grady Takes Independence Helm

Capt. James W. O'Grady, reporting from the Office of Joint Chiefs of Staff, has assumed command of the attack aircraft carrier, USS Independence.

He relieved flag-selectee, Capt. Rhodam Y. McElroy who has been named Carrier Division 18 Commander.

Marine Corps Rewards Its Best Instructors

A/GySgt. Myron A. Mlachak of the 3d Marine Division, and Cpl. J. R. W. Purdell, of the Third Marine Division, have earned first place in the Fifth Annual Marine Corps Technique of Instruction contest.

Sergeant Mlachak won in the Staff NCO category, while Corporal Purdell topped entrants in the sergeant-and-below classification.

The winners received gold-finished trophies and \$100 savings bonds. Runners up, AS/Sgt. Duke Stone of the First Marine Aircraft Wing and A/Sgt. Michael A. Tienken of MCAS Cherry Point, N. C., won silver trophies and \$50 savings bonds.

In all 20 of the Corps' top instructors competed in the finals. They were sent to Headquarters as winners of major FMF unit competitions and regional non-FMF contests conducted earlier this year.

Maj. Gen. Alan Shapley, Director of the Marine Corps Reserve, and Maj. Gen. Wallace M. Greene, Jr., Deputy Chief of Staff (Plans), headed panels that judged the finals, held at Marine Barracks, 8th and Eye Streets, Washington, D. C.

Camp Lejeune Globe Top Marine Paper

The Camp Lejeune *Globe* has been named winner of the 1959 annual Marine Corps Journalism Award.

The *Globe* serves the Marine Base, Second Marine Division and Force Troops, FMF Atlantic, at Camp Lejeune, N. C., and the Air Facility at New River, N. C.

Eleven Marine post papers competed for the Award. They were judged on the basis of fulfillment of mission and journalistic excellence. Particular attention was given to general news coverage, informational value to readers, writing quality, format, use of photographs, opportunities for reader expression and services rendered readers.

U. S. MARINE CORPS ORDERS

Commandant—General Randolph McC. Pate
Assistant Commandant—Lt. Gen. Verne J. McCaul
Chief of Staff—Lt. Gen. Robert E. Hogaboom

COLONEL

Narter, Guy G, HqMC, to AWC, Carlisle Bks, Pa.

LT COLONEL

Cloern, Lawrence R, SFran, to MB NAD Concord, Calif.
Marsh, William H, HqMC, to Army War College, Carlisle Bks, Pa.
Hill, Jake B, Ofc of CNO, to HqMC.
Morris, Warren, MB Guam, to 1st Mar Div.

MAJOR

Draper, William H, CINCLANTFLT, to 1st MarBrig.
Schoneberger, Albert G, CorpC, to 1st MAW.
Shoden, John C, College Pk, Md, to 1st MAW.
Woodbury, George B, 1st MAW, to 3d MAW.
Reeder, James H, FMFPac, to 2d Mar Div.
Belbusti, Albert P, MCS, Quant, to Nav WpnsLab, Dahlgren, Va.

CAPTAIN

Wickwire, Peter A, 1st Mar Div, to MCS, Quant.
Skinner, Benjamin B, Milton, Fla, to NATTU NAS, Pncla.
Treado, Marshall J, BuWpns, to HqMC.
Lugger, Marvin H, USS Toledo, to MCS, Quant.
Pollard, Jack G, MCRD PI SC, to MarDet USS Toledo.
Barnes, Robert O, Monterey, Calif, to MCSC Albany, Ga.

Gordon, George O, jr, PI SC, to MCAS Cher Pt.

To 1st Mar Div

From PI SC:

Palle, Eugene

Thorlansson, R D

To 2d Mar Div

Cushing, Francis C, MarPac.
Ferguson, Donald S, 2d MAW.
Roles, Wayne L, 3d MAW.
Rowe, Donald L, NAS, CorpC.

From PI SC:

Coleman, E P

Dean, Clyde D

To 3d Mar Div

From PI SC:

Booth, Charles L

Wagner, David H

From MCRD S Diego:

Lawendowski, John J

To 3d MAW

Beck, Kenneth R, AirFMFPac.
Bradshaw, Harvey D.

Shields, William B, AirFMFPac.

1ST LIEUTENANT

Brutcher, Samuel P, 3d MAW, to Air FMFPac.
Murphree, James W, jr, 3d Mar Div, to MAD NABTC Pncla.
Robertson, Thomas E, Beeville, Tex, to 1st Mar Brig.
Steele, Orlo K, MCR S Diego, to 1st Mar Brig.
Lichtman, Arthur, MCS, Quant, to ForTrps FMFPac.

To 1st Mar Div

Bacik, Vladimir H, 3d MAW.

To 2d Mar Div

Gaffney, John F, MarPac.
Obrien, Richard V, MCB Cp Lejeune, to 2d Mar Div.
Ellis, Gerald L, 2d MAW.
Morgan, John E, 2d MAW.

To 3d Mar Div


Johnson, Gunnar A, PI SC.
Duggan, Donovan F, NAS CorpC.

2D LIEUTENANT

Welsh, Donald B, Beeville, Tex, to 2d MAW.

—Continued on page 19

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U. S. NAVY ORDERS

William B. Franke—Secretary of the Navy

James H. Wakelin, Jr.—Assistant Secretary (Research & Development)
 Cecil P. Milne—Assistant Secretary (Material)
 Richard Jackson—Assistant Secretary (Manpower, Personnel & Reserve Forces)
 Admiral Arleigh A. Burke—Chief of Naval Operations

CAPTAINS

Anderson, Jay S, CofS and Aide, Commander, Naval Air Base, 5 ND; to 5 ND.
 Baker, Harold E, Asst Supt, Naval Weapons Plant, Wash, DC; to CO Naval Ordnance Lab, Corona.
 Baskett, Thomas S, ComSuGru WestPac; to ICAF, Wash, DC.
 Bardsley, Henry L, Support Office, NAS Quonset Point; to BuWeps.
 Benbow, William E, BuOrd; to COMinRon 8.
 Bobczynski, Sigmund A, Staff ComServLant; to ComOceanSysLant.
 Brookings, Robert S, III, CO USS Ft Snelling; to ComTaiwanBCom, MAAAG, Taiwan, Taipei.
 Cochrane, Richard L, Staff ComSerPac; to Staff CinCPacFlt.
 Cooper, Robert W, AFSC NorVa; to Com FairNorfolk.
 Dye, Ira, ComSubDiv 22; to OpNav.
 Eppes, Marion H, ComNAB, 4 ND; to CO NAS Lakehurst.
 Fahy, John S, BuPers; to AsstCh for Nav Res and NavDistAffairs BuPers.
 Hausman, John E, Staff CinC NELM.
 Helser, Harold M, NavConstDist Argentina, Buenos Aires; to Naval Board of Inspection and SurveyPacOSec, SDiego.
 Hirst, John W, SupOff, Staff CNavAnTra, NAS CorpC; ASO Phila.
 Hyde, John M, ComSubRon 4; to ICAF, Wash, DC.
 Kalt, Herman H, CO PhiloTuPac; to CO NavPhibBase, Coronado.
 Kibbe, Richard L, OFC of LegAffairs, Nav Dept; to OpNav.

King, Charles E, ComPhibRon 1; to OpNav.
 King, Thomas S, Jr, CofS and Aide ConCar Div 18; to CO USS Observation Island.
 Kline, Raymond P, Staff ComNavAirLant; to CO FAETULant.
 Knapper, John K, CO NavMarCor Reserve Training Center, Pittsburgh; to CO USS Gen H W Butner.
 Leeds, John R, BuPers; to CO MSTs MedSub Area.
 Mauro, Charles T, Jr, OpNav; to CofS and Aide ComSix.

Miller, Charles W, NTC Bain; to NavHosp St Albans, L I.
 Morgan, Robert J, Co FAETULant; to CO NavSta Argentina.
 Moureau, Ralph H, Staff ComServLant; to 5 ND.
 Ogden, James R, CofS ChMAAG, Taiwan, Taipei; to DirCruit Second Baltimore.
 Sander, Carl A, Jr, ComNewLondonNDevDet; to ComNewLondonTest and EvalDet OP TEVFOR.
 Schoenweiss, Carl W, NSA Ft Meade, Md; to CO NSA Gtmo.
 Shirley, Gene T, ComDesDiv 282; to Joint Staff, JCS.
 Slye, Robert W, OfcoInfoNavDept; to CO NAS Sanford.
 Smith, Bryan H, Jr, CO MinWarfareEval Det; CofS and Aide ComCarDiv 18.
 Stanford, Walter O, NAS CorpC; to NAS Oakland.

—Continued on page 18

Army Navy Air Force Journal 7
 17 Oct. 1959 (Vol. 97, P. 171)

Capt. Ross Heads Amphib School

Capt. B. P. Ross is the new Commander of Naval Amphibious Schools, Coronado, Calif.

Formerly assigned to the Pacific Fleet Amphibious Force's attack transport USS Pexar, he relieved Capt. F. O. Ifrig, reassigned to command the transport Gen. J. C. Breckinridge. Captain Ross will reside at 721 "G" St., Coronado.

Three-Stripe WAVES

A Navy board has chosen three Regular Line WAVE lieutenant commanders for three-stripe rank.

They are:
 Mary T. Baker Kathleen Ziegler
 Anne L. Ducey

Navy Junior Officers

The Navy has listed the names of junior unrestricted officers in permanent and temporary grades, as of 1 Sept. 1959 who have been commissioned in, or have become due for promotion to the grades indicated, under the provisions of Title 10, U. S. Code:

GRADE	PERMANENT Line	TEMPORARY
Adm.	B. N. Rittenhouse, Jr.	W. T. Nelson
Capt.	J. D. McAllister	J. B. Nelson
Lt. Col.	J. A. Lovington	J. W. Hemann
Lt.	J. S. Grischy	G. J. Villeneuve, Jr.
	E. W. Norton	
	Medical	
Adm.	C. B. Galloway	C. L. Andrews
Capt.	H. C. Sudduth	J. I. F. Krudhansen
Lt. Col.	O. F. Nielsen	F. Ostapowicz
Lt.	R. M. Lehman, Jr.	F. E. Staggers
	J. L. Moore	W. S. Weil
	Supply	
Adm.	T. A. Long	J. S. Dietz
Capt.	M. D. Sims, Jr.	W. H. Ross
Lt. Col.	C. L. Tolleson	B. E. Smith
Lt.	W. A. Cooper	J. G. Tapp
	A. G. Mason	J. A. Szwed
	Chaplain	
Adm.	G. A. Rosso	
Capt.	A. R. Cook	S. H. Shears
Lt. Col.	L. M. Lindquist	G. A. Oglesby
Lt.	R. A. Berry	H. R. Sessions, Jr.
	R. F. Wicker, Jr.	M. H. Simon
	Civil Engineer	
Adm.	H. B. Jones	N. J. Drustup
Capt.	J. H. Beaman	R. E. Thomas, Jr.
Lt. Col.	W. G. Davis	G. R. Shepard
Lt.	"W" "J" Blevins	D. W. Wittschiede
	H. A. Tombari	R. Myers, Jr.
	Dental	
Adm.	C. W. Shantz	F. Dobronte
Capt.	P. C. Bonnette	W. J. Kennedy
Lt. Col.	J. A. Bancroft, Jr.	J. J. Webb
Lt.	B. Chap	E. J. Weigle, Jr.
	W. F. Riddle	
	Medical Service	
Adm.	R. L. Taylor	P. W. Chambers, Jr.
Capt.	W. M. Dreitlein	A. L. Anderson
Lt. Col.	T. L. Hollis	R. F. Paige
Lt.	E. R. Jones, Jr.	R. Neuman
	Nurse	
Adm.	A. Danyo	C. E. Todd
Capt.	R. M. Mentzer	D. C. Becker
Lt. Col.	R. B. Jordan	S. C. McGinniss
Lt.		B. E. Cordell
	WAVE	
Adm.	M. C. Houck	
Capt.	B. J. Allen	
	LDO (Line)	
Adm.	S. R. Miller	J. B. Saylor
Capt.	R. L. Anderson	R. L. Hoffman
Lt. Col.	J. B. Williams	F. F. Day

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Air Guard May Get More AC & W Units, Under Sec'y Sharp Tells NG Assoc.

SAN ANTONIO, TEX.

CONGRATULATING the Air National Guard on the economical manner with which it operates the four Aircraft Control and Warning sites now assigned to it, Under Secretary of the Air Force Dudley C. Sharp told the National Guard Association Conference here that "it seems logical" they should do more of it.

The two National Guard sites in Hawaii, he said, are the only radar warning systems that the 50th State has. "They and the air defense unit stationed on the island," he reported "are in effect Hawaii's defense structure."

The other two Air Guard AC & W sites are in Utah and Colorado.

"They do the same work that full time ADC units do," the Under Secretary declared, "for about one-third the man-

power costs. This suggests to me that we might look into the possibility of having the Guard run more of these sites.

"Recognizing what the Air National Guard has done in the past and what it is doing now," Secretary Sharp continued, "I confidently expect you to have equally important assignments in the years ahead. It is quite likely that your Aircraft Control and Warning missions will expand as new equipment and more comprehensive communication networks become operational. Having proved what you can do in this kind of work, it seems logical that you should do more of it."

However, as to missiles, Secretary Sharp said that "at the moment we do not have a positive and final answer as to how the Guard fits into the picture. But I am of the opinion that we should use it to whatever extent is possible."

Army Leaders Praise Air Nat. Guard

SAN ANTONIO, TEX.

PRAISE for the work of the Air National Guard was given by two Army leaders speaking before the National Guard Association here.

Said Army Secretary Brucker:

"I wish to compliment the Air National Guard for its significant accomplishments. Twenty-two Air Guard squadrons are standing daily runway alert under direction of the Air Defense Command, sharing with the Army National Guard's NIKE battalions a very important role in the air defense of our Nation.

"Nowhere is the close relationship between Army National Guard and Air National Guard more in evidence than in Hawaii. Air Guardsmen there are already flying all-weather interceptors and manning two radar con-

trol and warning sites 24 hours a day. Soon the Active Army will turn over to Army Guardsmen the operation of the Nike Hercules battalions, giving the Hawaii National Guard, Army and Air, full responsibilities for the air defense of our 50th State."

General Bruce E. Clarke, Commanding General, Continental Army Command, told the delegates:

"While I was primarily concerned with the Army National Guard, the Air National Guard is deserving of the highest plaudits also. Exercise Dark Cloud-Pine Cone II, held in May and June, is a good example of Army and Air Force unification of purpose. Air National Guard units from 20 states participated in these large-scale troop lift operations. They earned the praise of both the Army and the Air Force for their fine performance."

SAC Officers See Stars

Two new major generals and six new brigadiers of the Strategic Air Command pinned on stars this month.

Gaining their second star were Horace M. Wade, former Director of Personnel for SAC and now commander of the 4310th Air Division in Morocco, and Keith K. Compton, SAC's Deputy Director of Operations.

Moving into the general officer ranks were Jack J. Catton, Commander of the 817th Air Division, Pease AFB, N. H.; Harold E. Humfeld, Commander of the newly activated 17th Air Division, White-man AFB, Mo.; Selmon W. Wells, Commander, 45th Air Division, Loring AFB, Me.; John C. Meyer, Commander of the 57th Air Division, Westover AFB, Mass.; Loran D. Briggs, Commander of the 821st Air Division, Ellsworth AFB, S. D., and Seth J. McKee, Commander of the 823d Air Division, Homestead AFB, Fla.

An earlier order pinned the first star on Theodore C. Bedwell, who becomes Command Surgeon upon the retirement of Brig. Gen. Loyd E. Griffiths, and John S. Samuel, Commander of the 825th Air Division, Little Rock AFB, Ark.

The command lost Brig. Gen. John K. Hester, CofS for the Second Air Force, to an assignment at USAF Headquarters. Col. Lewis E. Lyle, Director of Plans for Second Air Force, has been named to succeed General Hester.

Heads SAC Internal Info

Lt. Col. Robt M. Rennelsen, reporting from the University of Southern California where he received a degree in Management is the new Chief of the Internal Information Division, SAC Headquarters Directorate of Information, Offutt AFB, Nebr.

Col. Bolt Takes Command At Richards-Gebaur AFB

Col. Jones E. Bolt, 38, is the new commander of Richards-Gebaur AFB, Mo.

Formerly Commander of the Sioux City AB, Ia., he replaces Col. Gordon F. Thomas, who will serve at Central Air Defense Force Headquarters as Assistant Deputy for Materiel.

Other personnel changes announced by Col. John H. Bell, 20th Air Division Commander at Richards-Gebaur, include the reassignment of Col. George H. Van Deusen, Deputy Commander at Richards-Gebaur, and Lt. Col. William D. Chalek, Deputy Commander of the 20th Air Division's Sioux City AB.

Colonel Van Deusen will be Deputy for Operations of the 33d Air Division at Oklahoma City AFS. Colonel Chalek will command the 53d Fighter Group and the Sioux City AB.

While at Williams AFB, Ariz., in 1949, Colonel Bolt was one of the original members of the Air Force's first jet acrobatic team, the "Acrojets."

Colonel Bolt is married and has three sons, 13, 9, and 7.

SAFIS Cuts "Services," Changes Name To SAFOI

The Secretary of the Air Force's Office of Information Services, headed by Maj. Gen. Arno Iuehman, has changed its name to the Office of Information.

New abbreviation for the office will be SAFOI.

In a parallel change for the field, Air Force Information Services Officers will now be called Information Officers.

U. S. AIR FORCE ORDERS

James H. Douglas, Jr.—Secretary of the Air Force

Dudley C. Sharp—Under Secretary of the Air Force

Philip B. Taylor—Assistant Secretary (Material)

Lyle S. Garlock—Assistant Secretary (Financial Management)

Joseph V. Charyk—Assistant Secretary (Research & Development)

General Thomas D. White—Chief of Staff

MAJOR GENERAL

Bassett, (Brig Gen) Harold H. Scott AFB, fr dy as Comdr, & ret in gr of Brig Gen eff 31 Oct & adv to Maj Gen.

Canterbury, William M. Hq ARDC, Andrews AFB is rel fr dy as Dep Comdr, Rsch; & asg dy as DCS/Rsch & Engrg, ARDC, eff 5 Oct.

Keirn, (Brig Gen) Donald J. is rel fr USAFH, Andrews AFB & ret in gr of Maj Gen, eff 9 Oct.

BRIGADIER GENERAL

Dougherty, John E. Hq ARDC, Andrews AFB, fr dy as Asst to Comdr; asg dy as DCS/Intell, ARDC, eff 5 Oct.

Flickenger, Donald D. Asst to Comdr, ARDC for Bio-Astronautics, Hq ARDC, Andrews AFB, fr add dy as Asst Dep Comdr for Rsch, w/nrc in add dy as Surg, ARDC, eff 5 Oct.

Fulton, Lee W. Hq ARDC, Andrews AFB, fr dy as Dep Comdr for Resources, ARDC; asg dy as DCS/M: ARDC, eff 5 Oct.

McNickle, Melvin F. Hq ARDC, Andrews AFB, fr dy as Dep Comdr/Wpns Sys, ARDC; asg dy as Dir/Rsch, Dev & Engrg, DCS/Rsch & Engrg, ARDC, eff 5 Oct.

Miller, Frederic H. fr Ofc, DCS/M, fr dy as Dep Dir of Supp & Svcs; to Centr Contr Gp, OSD, for dy as Dir, European Region, Ofc, Asst Secy/Def (International Security Affairs).

Newton, Dorr E. Jr. Hq ARDC, Andrews AFB, fr dy as Asst Vcomdr, ARDC, & Ch. Plns & Programming Ofc, ARDC; asg dy as CofS, ARDC w/add dy as DCS/Plns, ARDC, eff 5 Oct.

Schweizer, (Col) John M. Jr. fr Wash, DC, & ret as Col, eff 31 Oct, & adv to gr of Brig Gen.

Vandevanter, Elliott, Jr. fr Centr Contr Gp, OSD, Hq USAF, Wash, DC, fr dy as Dir, European Region, Ofc, Asst Secy of Def (International Security Affairs); to USAFH, Hq Comd USAF, Andrews AFB (Pnt).

Wassell, Ralph L. Hq ARDC, Andrews AFB, fr dy as Asst Dep Comdr for Rsch (Applied), ARDC; asg dy as Asst DCS/Rsch & Engrg, ARDC, eff 5 Oct.

COLONEL

Adkinson, Bourne, Wash, DC, to Hq 7217th ADiv, USAF, APO 254, NY.

Caldwell, Herman B. Tacoma, Wash, to Hq AFSWC, ARDC, Kirtland AFB.

Geary, Leo P. Wash, DC, to 1127th USAF Fld Act Gp, Hq Comd USAF, Ft Belvoir, Va.

Hall, Edward N. APO 230, NY, to Hq 807th Cmbt Supp Gp, SAC, March AFB.

SAC Units Honored In Command Chapel

All SAC wings, divisions, and numbered air forces will be symbolically represented in the command chapel at Offutt AFB, Nebr., according to Chaplain (Col.) George S. Wilson.

The SAC Staff Chaplain said that in addition to the stained glass SAC Memorial Window, there will be windows in the chapel bearing the crests of other SAC units.

Money gifts taken at special offerings in SAC base chapels earlier this year totaled approximately \$17,000, which will be used for memorial stained glass windows for each of the four numbered air forces, and panes for each of the nearly 80 divisions and wings.

The Memorial Window is in honor of all SAC crews who have lost their lives in aircraft accidents while helping the command to live up to its motto, "Peace Is Our Profession."

It will be dedicated in special religious services to be held at the SAC Chapel next 29 May. Chaplain (Maj. Gen.) Terence Finnegan, Air Force Chief Chaplain, will be the speaker.

Col. Martz Assigned At Dayton From Europe

Col. Chester G. Martz has been assigned to Dayton Air Force Depot, Ohio, commanded by Brig. Gen. C. E. Jung, after duty in Europe.

He will be Director of DAFFD's Supply and Services Directorate.

ConAC Info Chief Gets Wing Command

Col. Blake C. Miller is the new Commander of the 2483rd Air Reserve Training Wing at Scott AFB, Ill.

He served as CONAC's Chief of Information Services at Mitchel AFB, N.Y., since February 1958. Prior to that he served as Executive Officer to former CONAC Commander Lt. Gen. Charles B. Stone, III, USAF-Ret., and to CONAC present Commander Lt. Gen. William B. Hall.

His wife is the former Margaret Banebach of his native town, St. Joseph, Mo. They have two children—Marilyn Arlene, a senior at the University of Missouri, and Margot Ann, attending Southern Seminary, Buena Vista, Va.

Leibel, Louis L. MacDill AFB, to Hq USAF, Wash, DC.

LIEUTENANT COLONEL

Bell, Cecil D. Holloman AFB, to Hq USAF, APO 633, NY.

Fr Wash, DC to Sta Indicated

Argent, Richard L. USAFH (Pnt), Hq Comd USAF, Andrews AFB.

Bruey, Thomas J. dy sta Convair Astronautics, Convair Div, Genl Dynamics Corp., San Diego, Calif.

Haist, Glade F. Ofc, Information Svcs, Los Angeles.

Wood, Willis H. 1003d IG Gp, Hq Comd USAF, Norton AFB.

MAJOR

Helms, Earl E. Seymour Johnson AFB, Hq Twelfth AF, Waco, Tex.

Fr Arlington, Va to Sta Indicated

Farrell, William S. dy sta Det 1 (Bellevue Msn), La Paz.

Enos, James W. dy sta Det 21 (USAF Mission to Argentina), Buenos Aires.

CAPTAIN

Chamberlin, Bernard N. Keesler AFB, Lincoln AFB.

Gonzales, Gilbert F. Wash, DC, to dy sta Det 13 (Venezuela Msn), Caracas.

Rebolt, John F. MacDill AFB, to 42d AF, Wg. SAC, Loring AFB.

SM/Sgt. Rhone Leaves Ent AFB For Tokyo

After five years' duty at Ent AFB, Colorado Springs, Senior Master Sergeant Tom Rhone, USAF, will depart this month for duty with Hq Fifth Air Force, Tokyo, Japan.

Arriving in Colorado Springs in 1954 Rhone has been assigned to the Office of Information Services at Hqs Air Defense Command, Continental Air Defense Command, and North American Air Defense Command, in turn, since that time.

His new assignment will take him to the Fifth Air Force Headquarters commanded by Lt. Gen. Robert W. Burns who also is Commander, United States Forces, Japan. He will be the ranking noncommissioned officer in the Office of Information Services there.

SM/Sgt. Rhone will be accompanied to Japan by his wife, Mary and two children, Sherry and Scott. They will leave Travis AFB, Calif., 31 October, aboard a Military Air Transport Service aircraft.

Radar Bomb Units Will Be Shifted

Transfer of four of SAC's radar bomb scoring detachments will begin next month.

These units score SAC bomber crews during simulated attacks on U.S. cities. Detachment 1 of the 10th Radar Bomb Scoring Squadron will be moved 1 December from Dallas to Ellenville, Miss.

Detachment 3, also of the 10th RBSS, will move from Omaha to Winslow, Ariz., 7 November.

Moving from Phoenix to Hastings, Neb., on 1 December is Detachment 3 of the 11th RBSS.

Although no date has been announced, Detachment 11 of the 12th RBSS will be transferred from Lockbourne AFB, Ohio, to Watertown, N. Y.

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James, R
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Lawton,
Neff, Lut
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Roben, H
Savage, F
Wilson, F
Alcorn, W
Barr, W-3
Chappell,
Colvin, W
Dunkin, V
James, V
Lamp, W-
Porter, W
Salin, W-4
Weber, W
OFFICER
Amodeo,
Thompson
RESIGNED
Blakely, C
Cohen, Ist
Gamble, 1
Harold, 1s
Schaefer,
PERMANENT
29 Sep:
Samuel A.
30 Sep:
Tom C: L
2 Oct: S
Ham H.
3 Oct: E
Wood, W
4 Oct: M
6 Oct: A
30 Apr:
16 Jun:
28 Jun:
11 Jul: 1
29 Jul: P
28 Jul: C
14 Aug:
4 Sep: 1
6 Nov:
8 Dec:
4 Jan:
4 Feb: 1

SAC Has A Base With A Physics Lab

SAC's first on-base physics laboratory has been dedicated at Fairchild AFB, Wash.

An initial class of 30 SACmen began studies in general college physics at the laboratory late last month. Their instructors are from the Eastern Washington College of Education, Cheney, Wash., which is cooperating with Fairchild in operating the laboratory.

—Continued on page 17

1ST LIEUTENANT

Boddie, Algernon O, Hill AFB, to Det 4, 2701st Expl Ord Disposal Sq, AMC, McClellan AFB.
Findley, David L, Arlington, Va, to dy sta Det 2 (Chile Msn), Santiago.
Gessner, Paul D, MacDill AFB, to 4038th Strat Wg, SAC, Dow AFB.
Wyant, Dalbert B, MacDill AFB, to 906th Air Rflg Sq, SAC, Minot AFB.

Fr Keesler AFB to Sta Indicated

Jewers, Richard G, Bainbridge AFB.
Smith, Keith B, Lockbourne AFB.

CHIEF WARRANT OFFICER

Slevenson, Samuel C, Keesler AFB, to APO 323, SF.

RETIRED—

Colonel

Persons, William E, Jr.
Stokes, (Lt Col) John H, as Lt Col & adv to Col.
Storey, Thomas B.

Lt Colonel

Burris, R F, as Col Muri, James P
Caylor, George H Stiglich, John J
Clague, Betty Wardle, John H
Cooper, J D, as Col Wood, Robert A
Delinck, Martin J York, Albert L

Major

Beckin, Homer R McDonald, James J
Booy, John E Taylor, F M, as Lt
Koplin, Frank R, as Col
Lt Col Wasco, John J

Captain

Blackmon, Leonard, as Maj.
Chan, Hubert.

B/G Ewbank Will Head Nellis Combat Training

Brig. Gen. John N. Ewbank, Jr., Deputy CofS, Operations, Headquarters Third Air Force, will take command of the 4520th Combat Crew Training Wing (TAC), at Nellis AFB, Nev., 16 November.

Col. Joseph L. Laughlin, present Commander, will become Deputy Commander.

Eggleston, Aldrich G, as Maj.
Elth, William A.
Erickson, Morris E, as Maj.
James, Ralph W, as Maj.
Johnstone, Edward C, as Maj.
Laukhuf, Ernest A, as Maj.
Lawton, William B, as Maj.
Neff, Luther B.
Pittman, Robert L, as Maj.
Roben, Herman, as Maj.
Savage, Richard J.
Wilson, Fred R, as Maj.

CWO

Alcorn, W-2 Ed E.
Barr, W-3 Charles E.
Chappell, W-3 (W-2) Orton K, as W-3.
Colvin, W-4 John A.
Dunkin, W-3 (W-2) Albert C, as A-3.
James, W-2 William H.
Lamp, W-2 Charles S.
Porter, W-2 Boyce J.
Salin, W-4 Gunnar.
Weber, W-3 August C, Jr.

OFFICERS FR TEMP DISAB RET LIST—

Amodeo, Capt Frank A, & ret as Maj.
Thompson, Capt Earl R, & ret as Maj.

RESIGNED—

Blankely, Capt Lee A, Jr, (MC).
Cohen, 1st Lt Donald N.
Gamble, 1st Lt Ronald F.
Harold, 1st Lt Norman J.
Schaefer, 1st Lt John E.

PERMANENT PROMOTIONS—

To Major

DR 1959

29 Sep: Borchert, Francis W; Wareham, Samuel A.
30 Sep: Henry, Arland R, (NC); Lawson, Tom C; Lorenz, Howard F; Woolfolk, W F.
2 Oct: Schamber, Robert A; Truxal, William H.
3 Oct: Blanchard, K J; Lane, Fred A, Jr; Wood, William M.
4 Oct: McCabe, J J; Myhra, I A.
6 Oct: Allison, John H.

To Captain

DR '58

30 Apr: Klaric, G M (ChC).
16 Jun: Llera, Louis; Martin, Lual A.
20 Jun: Marrs, M A, Jr.
11 Jul: Lehr, Donald E.
20 Jul: Hogan, Eugene S.
23 Jul: Crawford, Archibald M, Jr.
14 Aug: Castellina, Valentino.
4 Sep: LaPresto, Jasper, Jr (MSC).
6 Nov: Hebert, Paul E.
9 Dec: Hill, Watt G, Jr.

DR '59

4 Jan: Panuska, R G.
4 Feb: Hart, James T.

3 Mar: Robertson, William J (MSC).
19 Mar: Rice, Phillip L.
22 Mar: Sacco, E J.
4 Apr: Yarbrough, G M (VC).
11 Apr: Schrader, George D.
10 May: Bryant, Charles L.
18 May: Griffin, Jon N.
1 Jun: Musetto, Elo; Smith, Richard E.
4 Jun: Dull, Frank J.
7 Jun: Emrie, W C; Helde, E G (ChC).
9 Jun: Harris, Ronald T; Kean, Owen, Jr.
10 Jun: Rubin, Renee.
13 Jun: Vilse, M G (ChC).
19 Jun: Noble, Howard W.
20 Jun: Keeley, Margaret R (NC); Keys, Raymond R.
21 Jun: Herlihy, J L.
26 Jun: Harrison, Billy D.
30 Jun: Friedman, Stanley A.
1 Jul: Burke, Casper H (DC); Deal, William A; Dennis, LeBaron W (MC); DeWitt, Harvey J (MC); Enders, L J (MC); Gibson,

William A, Jr (DC); Hagood, Clyde O, Jr (MC); Hull, Caleb A (DC); Klinger, R E (DC); Ledbetter, E O (MC); McBain, John K (MC); McDowell, Tyre E; Rasch, J R (MC); Woodhead, D M (MC).
3 Jul: Calloway, V D, Jr.
6 Jul: Leatham, D W; Wells, Robert L.
15 Jul: Roberts, Dean E.
1 Aug: Ferguson, Sam L.
2 Aug: Lorraine, J F, Jr; Thomas, Andrew H, Jr.
10 Aug: Runley, G B, Jr; Yow, F L, Jr.
11 Aug: Dillon, James H; Hoffman, Rudolph A (VC); Mehaffey, W L.
12 Aug: McCarthy, Edmond R.
13 Aug: Mahrt, D E; Matson, W P; Shepard, James J.
14 Aug: Williams, Joe T (VC).
15 Aug: Moody, Sidney E.
16 Aug: Haynes, Robert E.
17 Aug: Nordquist, R H.

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"SPOKESMAN OF THE SERVICES SINCE 1863"

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DANIEL Z. HENKIN
Assistant Editor

17 OCTOBER 1959

NASA Lets Public In On Progress In Basic Research

In this era when there is so great a tendency toward secrecy in governmental activities, it is refreshing that the National Aeronautics and Space Administration has elected to continue the policy of its predecessor, the National Advisory Committee for Aeronautics, in holding annually an inspection at one of its great laboratories. Invited to these inspections are representatives of the Army, Navy, Air Force, and Marine Corps, as well as those scientists and industrialists engaged in the production of space vehicles, missiles and aircraft of all types.

The inspection this week was at the Langley Laboratory at Langley AFB, Va.—the original research establishment of the NACA. Some 2,100 guests attended full day tours and demonstrations repeated each of three days.

The laboratories contribute to the space, missile, and aeronautical advancement of military as well as civilian and industrial projects, and inasmuch as they are supported by governmental funds it is important that the public be given an insight into the contributions they are making.

Among the far-reaching lines of research now being pursued by NASA scientists, emphasized in this week's inspection, were those in the vast new field of magnetoplasmodynamics, the study of the behavior of electrified gases in magnetic and electrical fields. Potentialities in this area include improved communications between space vehicles and the earth and ion propulsion which offers enormous speeds to vehicles once they have been projected into space, as well as vast areas yet undetermined.

New methods of launching rockets from "parking orbits" which will be considerably more efficient than from stationary sites on the ground were discussed and their feasibility explained. Also revealed were plans for sending into space vehicles and platforms in folded form so that they would unfold and automatically expand when they have reached their orbits.

In the field of aeronautics, the scientists are engaged in all types of research and development. Aerial autos which ride on a cushion of air just above the earth's surface, such as is being sought by the Army, are under constant improvement. At the other extreme, NASA workers are preparing to show how transports can be propelled at speeds beyond 3,500 miles per hour with safety and comfort to the traveler. Likewise, development is being continued in various ways to achieve vertical take-off and landing craft with simplicity and economy.

In the stockpile of basic knowledge being built up by these activities lies the future weapons of our Armed Forces and progress in peaceful civilian life and commerce.

Civilian Transportation Networks Aid Services

Two JOURNAL reports in this issue point up the vital interlocking relationship between the forces of National Defense and the civilian transportation facilities.

On page 29 we report the description by Lt. Gen. Francis H. Griswold, Vice Commander of the Strategic Air Command, of how SAC plans to mount its forthcoming Minute Man missile aboard railroad cars, with all operating and maintenance crews and necessary equipment, so that they may move from place to place over the entire U. S. rail network to fire the deadly missile. This mobility prevents them from being ever-standing targets and obviates the necessity of building costly "hardened" sites.

On page 3 is a report on the Department of Defense's decision to permit the increased transportation of Army troops to overseas stations by air. In doing this, the Military Air Transport Services, which handles air transportation for all the Services, plans to increase its use of the civilian commercial carriers to take care of the bigger load.

These are incidents which emphasize the vital importance to each other of civilian industry and business and the interests of the national security.

One Hundred Eighty-Fourth Anniversary Of The Navy

Navy Day, 27 October, this year will mark the 184th anniversary of the seagoing establishment of the United States. On that day in 1775 the Continental Congress received a bill providing for the establishment of a Fleet. At first the small navy was under the War Department and it was not until after the Revolution that the Navy Department was set up as a separate entity.

Navy Day this year also marks the 101st birthday of President Theodore Roosevelt whose strong advocacy of the sea service led to his being referred to as the Father of the modern Navy.

The Navy and its adherents have much to celebrate, not only in the proud history which has seen it in the forefront of all of our wars, but also for the achievements and advancements which make it such a progressive force today. Today's missile firing cruisers and submarines and far ranging sea-going jet aircraft are a far cry from the wooden ships of a century ago or even from the cannon-armed battleships of a few years ago.

The Services join the citizenry in a Navy Day salute.

READERS' VIEWS

Air Force Drops Army

■ It was interesting to note in your 3 October issue that the Army successfully airdropped "five mammoth Caterpillar tractors" and other heavy equipment at Camp Breckenridge, Kentucky. Your story went on to say that the drop was made from a C-130 Hercules transport.

Not wanting to take anything away from the Army, I might point out that the drop of Army equipment was made by the Air Force. The Army has no C-130's.

The Air Force has air dropped out-sized equipment for years. May I call your attention to a drop last spring of heavy Caterpillar tractors, graders and the like from Military Air Transport (MATs) aircraft onto a moving ice island in the Arctic ocean some 350 miles north of Point Barrow. This takes me doing!

CHAUNCEY L. McDERMOTT
MAJOR, USAF
DIRECTOR OF INFORMATION
TRAVIS AFB, CALIF.
WESTERN TRANSPORT
AIR FORCE (MATs)

Editor's Note: The Breckenridge drop was executed by units of the 839th Air Division, Seward AFB, Tenn.

Questions on USCOA

■ The following are some rhetorical questions and comments:

Since they are trying to make it easier for military personnel to come under the "Protection of the USCOA," why are they not now also trying to find ways for present retired unhappy par-

ticipants to get out from under that protection? (Rhetorical question). I guess the high premiums are too good to let retired people, who wish that they had never negotiated such a contract, could get out from under that "protection."

I wish that it were possible for all retired participants to get lists of all other participants. (That is naturally wishful thinking). Would that not make a wonderful club? (Rhetorical question).

When we compare NSLI with the USCOA, why can a person so easily lose his NSLI and not with the same ease lose his USCOA contract? (Rhetorical question).

Why was it necessary for military personnel to decide for or against signing a contract in such a rush and having to decline in writing instead of just forgetting it? (Rhetorical question). If the request had been made that any military person could increase his NSLI up to \$20,000 (instead of the present \$10,000), with the proportionate increase in premiums, there would have been no need for any rush—personnel would have been dribbling into the insurance office without much encouragement and without the present glamorous write-ups we see in military publications now on the USCOA. I would have signed up for an increase in NSLI and would not have regretted it.

I know of one retired colonel, who likes his USCOA contract. He is a big businessman, who does not need his retired pay at all to make a living and actually could donate his whole retired pay (for patriotic reasons) to the USCOA. I need my retired pay to buy bread and butter for my family. I am sixty years of age, have a wife and two teenagers and pay for a roof over their heads. How long I'll be able to work is anybody's guess.

When a high-ranking military person retires (let's say with \$600 retired pay a month), if he were to lose approximately 20% of his pay for USCOA protection, he would still receive \$480; but the person whose retired pay is less than \$320 a month, he can ill-afford \$80 a month if he has to support a family and is paying for a home for them. There is the hook that kills the poor fish. (My annuity costs me \$49.43 per month.)

They should make it easy for any USCOA participant who is sixty years of age and receives less than \$320 gross retired pay and with large family expenses, to get out from under the burdens of that "Protection."

CWO, USA, RETIRED

IN THE JOURNAL

10 Years Ago—Although detailed effects are not yet known definitely, it was apparent this week that the new pay law for the Armed Forces will result in an increased burden on the Army, Navy and Air Force medical staffs, already seriously undermined.

50 Years Ago—The Office of the Chief Signal Officer of the Army, Brig. Gen. H. A. Allen, has devised a most interesting method of rapid reproduction of orders and official papers, which will ultimately prove to be of great value. It consists of a simple system of lens printing on specially prepared bromide paper fed from a roll, and the exposure being made in about three seconds, with as many minutes employed in developing and fixing and a very few minutes for drying.

95 Years Ago—The Confederate cavalry under Price have at length reached the heart of Missouri — the main body having crossed the Osage River near Jefferson City, the capital of the State, on the 7th inst.

(Letters to the Editor must have author's name and address, but name will be omitted on publication if the author so states. Longer letters will be extracted for publication.)

Gen. Kuter, Satisfied With NORAD Hq., Reorganization, Will Advise JCS He Is Prepared To Extend Plan To Lower Echelons; Digging COC Into Mountain

ENT AFB, COLO.

HEADQUARTERS of the \$4.5 billion North American Air Defense Command, controlling more than 200,000 full time, regularly assigned personnel, is completing the first phase of its recently authorized reorganization well satisfied with its progress.

Under special authorization of the Joint Chiefs of Staff approved 23 June, the component headquarters of the Army, Navy, and Air Force have been transferred into NORAD's combined U. S.-Canadian headquarters with a consequent enlargement of its strength to about 650.

General Laurence S. Kuter, Commander in Chief of NORAD, says that he is completely satisfied with JCS directive and detects no major problem areas.

Asked if he sees any requirement for further legislation in order to clarify his position in relation to control of the component forces, General Kuter replied that he does not.

"We initiated the first phase of the reorganization on 3 August," General Kuter said. "After we have phased in these people from the component headquarters into the NORAD organization,

we will go back to the JCS and advise them that we are ready to accept the remaining spaces they have agreed to make available to us. This amounts to about 200.

"After we complete this headquarters revamp, we will go down to our subordinate echelons and reorganize them along the same lines."

Aside from the reorganization, the major project underway here is the construction of an underground Combat Operations Center. Actual work was begun 23 September with the letting of a \$923,000 contract for four miles of access roads to the site on the side of a nearby mountain.

The Hopkins construction Company of Denver, low bidder, started work immediately. The contract calls for construction of access roads from Colorado State highway 115 to the base of Cheyenne mountain where the two entry portals will be placed. The work must be completed by 15 November. Authorities state that a \$5,000 per day penalty clause was written into the contract which would become effective should the contractor fail to complete construction by that date.

More than 45 inches of snow fell on the site on 28-29 September, but the contractor continued operation. In order to meet the contract date two 10 hour shifts are being worked on a seven-day basis.

Mr. Thomas S. Cosgrave, construction engineer with the Army Corps of Engineers, has been appointed Acting area engineer in charge of construction of the entire project, and has set up



Gen. Kuter

UNITY AT NORAD

Air Marshal C. Roy Slemmon, RCAF, Deputy CinC of NORAD, addressing a group of State Adjutants General at Ent AFB, stressed the unity existing at NORAD headquarters and throughout the entire command.

In NORAD, he said, there is complete unity regardless of the variety of branches of service and national origin represented. This is so, he emphasized, because all have the same purpose—defense of North America against aerial attack.

He spoke at a luncheon given by Maj. Gen. Donald W. McGowan, Chief of the National Guard Bureau.

an area office at Ft. Carson, immediately adjacent to the site.

Mr. Cosgrave announced that the Corps of Engineers will probably advertise for bids to construct the first stage of the heavily protected underground center about the third week of October. This contract will involve excavating the tunnels and chambers under the mountain. Normally, about 30 days passes between the time bids are advertised and the winning bidder announced.

A final contract will be let for the completion of the structures within the excavated tunnels at a later date.

While exact details have not been released, it is known that the underground center will house the nerve center for the entire NORAD command. Facilities will be built to house more than 600 personnel of the NORAD staff who would be responsible for directing the Air Defenses of Canada and the U. S.

The structure will be excavated from solid rock under the 9,600-foot Cheyenne Mountain. The portals of the tunnels leading to the center will enter the mountain at an elevation of about 7,000 feet.

It is estimated that the total cost will be about \$30 million and that about 30 months will be required to complete the project.

When completed it will provide a terminal point for all communications used by NORAD including the DEW line, BMEWS, and the other warning radar systems provided by Canada, the U. S. Navy and the U. S. Air Force.

The center will be linked to all of the SAGE Sectors in Canada and the U. S., as well as to the seats of Government in Washington and Ottawa and the major U. S. Command headquarters in other parts of the world.

"We are not attempting to provide a 'Safe' place for NORAD personnel in the event of attack," one officer stated. "The hardened site will provide for the period of the battle a single communications point with which our government leaders can communicate to determine the state of the battle and the damage our two countries have sustained under the attack."

Army's Six Months Active Duty Training Questioned; Other News Of NGA Meeting

SAN ANTONIO, TEX.

A GREAT many Adjutants General and senior Army National Guard Commanders feel that the time has come to re-evaluate the six months active duty training program, according to a report of the National Guard Association's Committee on Army affairs.

Maj. Gen. Maxwell E. Rich (Utah), chairman of the committee, told the Association's conference here that many believe that unit training can best be given to the individual in his National Guard organization.

"We have determined from many reports," he said, "that a great deal of duty time in the unit training period is taken up with normal, routine household and administrative functions which hardly make it worth retaining him on active duty."

"There is a great deal of thought that the six months training period could be shortened and the end-product would be equally efficient. It goes without saying, of course, that by shortening the period the cost of the program would be considerably reduced."

AN INTERPRETATION OF GENERAL CURTIS E. LEMAY's remarks were interpolated in his speech to the Association by Under Secretary of the Air Force Dudley C. Sharp. Just before addressing the Conference, Mr. Sharp revised his original text to insert the following:

"A high Air Force officer made some remarks recently which seem to have worried some elements of the Air Reserves and Air National Guard. I think these remarks were made for the express purpose of stimulating all of us—both in the Regular Air Force and in the reserve elements of the Air Force—to do some original thinking about our mutual problems. I think the implication was that the American people can afford an Air National Guard as long as it is really useful, and no longer. This is also true of the Air Force itself—the fact is that nothing today is sure except change. If

we do not face this fact, we are surely doomed."

A NATIONWIDE ESSAY CONTEST will be held among high school students "to stimulate thinking and research about the National Guard and the role that it has played in the military history of America." This word was contained in the report of the NRAUS's Committee on Public Relations, of which Maj. Gen. Joseph J. Scannell, Delaware Army National Guard, is chairman, and Col. Edward R. Fry, Kansas Air National Guard, is vice chairman. Details will be sent to State Adjutants General by the end of this year and the contest will be conducted in the second semester of the current school year.

ARMY AVIATION COMPANIES in the National Guard would be given "adequate technician support" under a resolution adopted by the Conference. The resolution pointed out that, under the reorganization, ARNG Divisions have organic Aviation Companies providing five types of aircraft, both fixed and rotary wing, and 76 pilots. However, under present conditions, the necessary development, organization, and supervision, flying activities, safety program, etc., can not be accomplished by unit personnel in the time available during armory training and annual active duty training.

SUBSISTENCE was the subject of two other resolutions. One asked that Army and Army NGB regulations be amended to eliminate the surcharge for officers subsisting in an established mess used jointly as a unit mess during active duty training.

The other urged that Appropriation Act language requiring Officers and Warrant officers of the ARNG and ANG to reimburse the Government for subsistence furnished during inactive duty training when they receive no subsistence allowance be deleted from succeeding Acts.

Sec'y Brucker Hits Guard Federalization

ABERDEEN PROVING GROUND, MD.

Strong opposition to Federalization of the Army National Guard was elicited here during the American Ordnance Association Meeting from Secretary of the Army Wilber M. Brucker.

"I am very much in favor of the continuance of the Constitutional status of the National Guard in every way, not changing that but recognizing it," he said.

Secretary Brucker noted that the "One Army" concept does not contemplate any changes in the status of the Guard.

House Reserves Visit Eighth Army Units

Six Congressmen and 28 Congressional aides—all Army Reserve Officers—this month visited front-line units of the 1st Cavalry Division in Korea as part of their active duty tour in the Pacific.

Heading the Congressional party were: Col. Alexander Pirnie (R-N. Y.); Lt. Col. Ken Hechler (D-W. Va.); Lt. Col. Hast-

ings Keith (R-Mass.); Maj. Harlan F. Hagen (D-Calif.); Maj. W. Pat Jennings (D-Va.); and Capt. J. Edward Roush (D-Ind.).

They were escorted by Lt. Gen. Emerson L. Cummings, Deputy Eighth Army Commander.

Col. Graves Advises Texas ANG Wing

Col. Frank N. Graves, 33d Air Defense Division Vice Commander, has been named Senior Air Force advisor to the 136th Fighter-Interceptor Wing, Texas ANG, at Love Field.

The 33d at Oklahoma City AFS, uses Texas ANG jet fighter-interceptors in its air defense mission.

Colonel Graves served during WWII in the CBI theater. He was promoted to Colonel in August 1945 and served as Director of Operations, 14th AF in China. In March 1946 he was appointed Advisor to the Deputy for Operations of the Chinese Air Force until June 1947. While in the latter position he served as a Peace Team Mediator for General of the Army George C. Marshall.

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WHITE HOUSE ORDERS TO THE PENTAGON concerning legislative requests for 1960 will reiterate a directive that was in effect this year. The Defense Department will be told again that it should place emphasis only on items which are (1) non-controversial, (2) of major importance, (3) capable of being enacted during the forthcoming session, and which (4) are of negligible fiscal impact.

UNDER THE CRITERIA spelled out by the White House and Budget Bureau, the Pentagon found it impossible during the past year to respond to a number of inquiries for guidance on legislation from the Armed Services Committees. One notable instance was the failure of the Defense Department to state its views promptly on the scores of bills introduced at the Capitol to equalize retired military pay.

THE NATIONAL GUARD ASSOCIATION IS CERTAIN to carry its attack on lack of support from "certain levels of the Defense establishment" (see Page 2) to Capitol Hill next year. The Association's claim that the Pentagon has shown an "utter disregard of Congressional dictates," could set off demands for detailed statements from National Guard leaders and Defense chiefs in public hearings.

AT THE START OF 1959, the Air Force had 9,148 pilots with more than 1,000 hours of jet experience. Credited with top jet time is Lt. Col. John J. Kropenick of Eglin AFB, Fla., with 5,586 hours through 30 June.

THE "ONE ARMY" DRIVE being sparked by Secretary Brucker will be boosted by the action of the Reserve Officers Association at its 37th annual meeting (see Page 3). The ROA, deciding that they could get no help from the Secretaries of the Air Force and Navy, did not ask for increased manpower for those Services. The ROA, praising Secretary Brucker, General Lemnitzer, and CONARC Commander General Clarke for their "One Army" efforts, passed a resolution which called for increased strength for the Active Army, National Guard, and Reserve.

THE TALLY WAS STILL GROWING as The Journal went to press, but a late count showed that 10 rear admirals, 148 captains and 43 commanders have applied for early Navy retirement since enactment of the "Hump" legislation with the 1 November cut-off date for "tombstone" promotions. Of this group, all but 41 captains and 16 commanders would have been forced to retire next 30 June by reason of having been passed over at least twice.

SLIPPAGE IS REPORTED in Army plans to change the current women's russet field shoe to a black shoe effective 1 July 1960. The Army now anticipates that the russet shoe will continue to be issued and worn until at least 1 July 1962.

OFF-DUTY EDUCATION HELP varies tremendously among the Services. The Air Force spends about \$2.2 million per year to provide tuition assistance for its members attending high school and college classes. The Army estimates its outlay at \$1.1 million. The Marines spend \$230,000. The total Navy budget for off-duty education is \$127,000.

THE \$7.50 SEMESTER HOUR LIMIT now in effect for all the Services would be raised to \$11.50 if the Pentagon goes along with a proposal that will soon be made by an inter-Service group (see Page 1). The Journal checked semester hour costs with two universities in Washington, D. C., this week: George Washington, \$22; Georgetown, \$33.

CANADIAN ARMY AVIATORS are having inter-Service difficulties with the RCAF that are similar to problems that have marked U. S. Army Aviation-USAF relations. The USAF has opposed Army use of aircraft weighing more than 5,000 pounds. RCAF authorities have sought to block Canadian Army use of such aircraft as the new deHavilland Caribou. A compromise may see RCAF pilots fly the Caribou for the Canadian Army for about a two-year period, after which Canadian Army pilots would take cockpit control of the 26,000-pound gross weight STOL aircraft. Many of the Canadian Army pilots are trained at the U. S. Army Aviation Center, Ft. Rucker, Ala.

THE OTHER SERVICES could hardly be expected to be exultant about a new Army pamphlet (Pam 355-200-5). Its heading: "United States Army Deployed Forces—First Line of Defense." At the outset, the Army document declares: "A large portion of the military strength is deployed for action, at home and overseas. Together with the forces of our allies, this deployed strength constitutes the world's first line of defense." A point could be made that the headline and the text are not exactly identical.

SOMETHING OTHER THAN PLUSH TREATMENT, normally accorded visiting Congressmen, has been provided Representative Stuyvesant Wainwright (R-N.Y.) during current inspection trip to Europe. A lieutenant colonel in the Army Reserve, and a WWII commander of an OSS unit, he has been making parachute jumps with the Army's crack 10th Special Forces Group at Bad Toelz, Germany. One jump was made from a deHavilland L-20 "Beaver" with Col. Michael Paulick, who commands the 10th, and Sgt. Major Charles R. Ferguson. Pilot of the aircraft was Capt. Jackie M. Howard.

HAWAII, THE ONLY STATE whose air defenses will be operated 100% by National Guard units, (see stories on page 8) has as Adjutant General a retired officer of the Regular Army, Maj. Gen. Fred W. Makinney. Gen. Makinney, a native of Honolulu, was graduated from West Point in 1919 and retired as a colonel in 1946, at which time President Truman appointed him AG of Hawaii. He attended the recent National Guard Association meeting in San Antonio and went on to NORAD headquarters at Ent AFB for conferences and briefing on air defenses.

ARMY AVIATION CENTER OFFICIALS ARE CONCERNED that the Soviets are out-distancing the U.S. in the adaptation of helicopters for a combat role in the nuclear battlefield. Intelligence reports reaching Ft. Rucker, Ala., (see page 1), tell of new Soviet emphasis on increasing the striking power of Red Army units by placing machine guns, rockets, and missiles on helicopters. At Rucker, the Army is conducting tests by use of the SS-10 missile on the H-13 helicopter. The Aviation Center expects delivery this month of a Bell H-40, which will be capable of mounting six SS-11 missiles, which have about twice the range of the 1,700 meter SS-10.

BRITISH FIELD ARCHERY CHAMPION is M/Sgt. Charles Yankauckas of the 7th Air Division. He has won every field archery competition he has entered in the U.K. since arriving there in January.

TACTICAL AIR COMMAND officers and airmen will hail a policy decision of the new chief, General Frank F. Everest. He has ordered elimination of optional periods for wearing of either summer or winter uniforms. Once a TAC base fixes a date, all personnel there will change garb on that day, and there will be no changing the day from year to year. At TAC Headquarters, Langley AFB, Va., the shift to winter uniforms was made on 15 October; summer attire will be worn beginning 1 May.

MANY SAC CREWS assigned on TDY missions overseas cannot count on satisfactory medical care for their families while they are away. At Pease AFB, N. H., an Eighth Air Force installation, Lt. Col. Dayton R. Griffiths, Director of Medical Services, declares that "we are presently incapable of providing even the limited services we are authorized to provide." The Medical Officer of the Day there is authorized to see "all accidental injuries including animal bites, poisoning and sudden acute illness with a temperature of over 101 degrees." Colonel Griffiths, seeking to keep families fully informed of the situation, has written a front-page article for a recent issue of "The Viking," base newspaper, to explain that the availability of the Naval Hospital at Portsmouth has prescribed limitations on the medical strength at Pease. He adds that a Service-wide shortage of physicians also has made it impossible to provide "maximum possible care" to wives and children.

A THIRD STAR FOR THE CHIEF of the National Guard Bureau probably will be sought actively by the National Guard Association at the next session of Congress. A resolution urging that the NGB Chief be a lieutenant general was adopted in 1958 but no bill was introduced in Congress at the first session. Members point out that the present Chief, Maj. Gen. Donald W. McGowan of New Jersey, represents 470,000 Guardsmen throughout 50 states.

THE NATIONAL GUARD ASS'N will attempt, at the next session of Congress, to have the Air NG included in bills now before both houses which provide that the 4-engine airline transports made surplus by the introduction of jets, be purchased and turned over to the Air Reserve and earmarked for mobilization airlift. The NGA already has brought up the idea with the Air Force which told them the JCS feels that, with the Civil Reserve Air Fleet, the services have enough to meet requirements through 1960. Meanwhile, the NGB is looking into all missions in the Air Force, including that of strategic airlift, for future roles and missions of the ANG.

THE "REEVALUATE GEN. LeMAY" resolution adopted by the National Guard Association in San Antonio (see last week's Journal) had more opposition than appeared on the surface. When it came to a vote, there was a scattering of "Nos" from the delegates but the "Ayes" had it. Subsequently a number of Air National Guard officers told friends they were opposed to it. One was Brig. Gen. Donald J. Strait, of the New Jersey ANG. He said that he and a number of other ANG tactical officers were absent from the convention floor at the time, attending a ConAC meeting. Had he been present, he said, he would have spoken and voted against the resolution. Gen. Strait is one of the officers appointed to the Air Force's board to study its reserve establishments' missions.

THE ARMY'S PUBLIC INFORMATION PROGRAM is being strengthened with assignment of a limited number of Regular colonels with 18-20 years service for advanced civilian schooling in communications and journalism. Applicants for courses starting in February have until 23 October to submit requests to the Office, Chief of Information, Department of the Army.

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Army Orders

from page 5—

Austin, Louis W Leonard, William E

Brigham, Hugh W Reynolds, Craig S

To Hawaii

From Ft Sill:

Frederick, Theo C, 3d Marshall, Donald R

Johnston, Franklin, Jr McCain, W B P

CORPS OF ENGINEERS—

Lt Gen Emerson C Itchner, C of E
Colonel

Lan, Herschel E, Ft Campbell, to USA Engr
Dist FE, Pac Ocean Div, Seoul, Korea.

Lt Colonel

Haley, Joseph K, Jr, Wash, DC, to USA Engr
Dist Far East, Pac Ocean Div, Seoul, Korea.

Major

To Korea

Manhe, Cornelius, Wash, DC.

Hawthorne, Emil F, Ft Bragg.

Captain

Baranski, Robert J, Ft Riley, to Japan.

Kandler, Jacob P, Wash, DC, to France.

Gowka, Samuel H, CE, Ft Leonard Wood, to
ARMISH/MAAG, Teheran, Iran.

1st Lieutenant

Miller, Richard D, Cp Pickett, Va, to TPMG

Gen USA, Ft Gordon.

Ashley, Alvie O, Ft Leonard Wood, to France.

To Germany

Buell, Bernard J, Ft Rucker.

Rense, Ronald B, Ft Knox.

2d Lieutenant

Lack, Michael W, Ft Sill, to Germany.

SIGNAL CORPS—

Maj Gen Ralph T Nelson, C Sig O

Colonel

Higgins, Elmer R, Ft Monroe, to USA Elm

JUSMMAAT, Ankara, Turkey.

Lt Colonel

Dowell, Edgar L, White Sands Msl Range, to

USA Gar, Ft Niagara, NY.

Captain

Alvin, Bernard E, Ft Leavenworth, to US-

ARAL.

—Continued on next page

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Army Orders

From preceding page—

Featherstone, Ralph D, Arlington, Va, to US-ARCARE Sig Agcy, APO 851, NY.
Hampson, Russell J, Jr, Ft Worth, to Germany.

To Korea

Hald, Donald J, Philadelphia.
Taylor, Lyman J, Brooklyn.

1st Lieutenant

Smith, Eulalia M, Ft Monmouth, to US WAC Cen, Ft McClellan.
Dompkowski, Chester J, Arlington, Va, to USA Comm Agcy, Wash, DC.
Kellom, Bernard K, Ft Sill, to 362d Sig Co, Ft Gordon.

2d Lieutenant

Wineman, Paul R, Wash, DC, to ARMISH/MAAG, Teheran, Iran.

ADJUTANT GENERAL'S CORPS—

Maj Gen Robert V Lee, TAG

Colonel

Henderson, William P, Ft Bragg, to Hq XX USA Corps, Ft Hayes, O.
Spillman, William R, Ft Hayes, to TAG Pers Rsch Gp, USA, Wash, DC.

Army Makes 28 Majors In S.O. 198

The following 28 Army captains were promoted to temporary major in S.O. 198, effective 7 October. They include captains through No. 398 on the Army Promotion List in Circular 624-66, dated 14 September.

Baker, Dallas O, Inf Hardesty, C M, jr, TC
Bullock, F E, Arty Harrington, Jas L,
Burch, Chas T, Arty OrdC
Culp, Willard E, CE Head, L W, jr, AS
Custer, C R, AS Hoffman, Jno H, Arty
De Leon, E P, Arm Hull, Robt A, QMC
Gellnicht, D L, QMC Lamar, H C, jr, Arty
Gotham, Fred C, SigC Luce, Edw G, MPC

Captain

Simmons, Thomas J, New York, NY, to TAGO USA, Wash, DC.

1st Lieutenant

Costello, John F, jr, Ft Ord, to Hq USAAR-MC, Ft Sill.

QUARTERMASTER CORPS—

Maj Gen Andrew T McNamara, QMG

Colonel

Walt, Ivan O, Ft Sam Houston, to Korea.
Stegmaier, Robert M, Ft Bragg, to Germany.

Captain

Johnston, William R, jr (AI), Wash, DC, to USA Elm Hq Iceland Def Force, Keflavik.
Andre, Robert J, Ft Lewis, to Korea.
Brokaw, William H, Philadelphia, to USA Avn Cen, Ft Rucker.

1st Lieutenant

Winter, Niles B, jr, Ft Lee, to USA Elm MAAG, Vietnam, Saigon.
Churchill, Morris L, Ft Lee, to France.

2d Lieutenant

Johnson, Michael D, Ft Lee, to Hq WRAMC, Wash, DC.

FINANCE CORPS—

Maj Gen Paul A Mayo, C of F

Major

Laterriere, John R, Ft Holabird, to Decatur Sig Dep, Decatur, Ill.

To Korea

Blackey, Philip R, Decatur, Ill.
Leggett, James H, jr, Sacramento, Calif.

MEDICAL SERVICES—

Lt Gen Leonard D Heaton, SG

Medical Corps

Captain

Waterfield, Jim R, Wash, DC, to DeWitt AH, Ft Belvoir.
Thomas, Paul A, jr, Ft Sam Houston, to Fitzsimons AH, Denver.
Hercher, Jim M, Ft Knox, to USA Med Tng Cen, BAMC, Ft Sam Houston.
Treat, Robert G, Los Angeles, to Martin AH, Ft Benning.

Dental Corps—

Maj James M Epperly, Chief

Lt Colonel

From Ft Sam Houston to Station Indicated
Josephson, Fred, USA Gar, Ft Hamilton.
Clarkson, John D, USA Gar, Ft Lawton.
Summa, Joseph P, USA Gar, Ft Lewis.
Weeks, Rubert A, Dent Det USA Gar, Ft Campbell.
Shaffer, Francis W, USA Cen Dent Lab, Wash, DC.

Major

Snodgrass, John W, jr, Ft Sam Houston, to Germany.
Thomas, Kenneth W, Ft Sam Houston, to 1st Log Comd, Hq and Hq Co, Ft Bragg.

Captain

Mikvy, William P, Ft Dix, to Korea.

Medical Service Corps—

Col Roy D Maxwell, Chief

Major

To OTSG USA, Wash, DC

From Ft Sam Houston:

Madden, James P Mihm, Homer W

Captain

From Ft Sam Houston to Station Indicated

Murphy, Thomas W, Germany.
McGrath, Francis, Jr, Korea.
King, Robert C, Irwin AH, Ft Riley.
Smith, Arthur M, USAH, Ft Gordon.
Fox, Jack, Hq 2d Region USA Air Def Comd, Ft Meade.
Gaskins, Henry H, USA Med Optical and Maint Actv, St Louis.
Vidaurri, Roberto E, Hawaii.
Funk, John C, Valley Forge AH, Phoenixville, Pa.
Ventura-Mecardo, Miguel A, USA Med Dep, Louisville, Ky, w/sta Fitzsimons AH, Denver.
Clem, Robert D, William Beaumont AH, El Paso.
Burson, Daniel S, USA Med Depot, Louisville, w/sta WRAMC, Wash, DC.

To Korea

Astrosky, Anna B, Ft Wayne.
Craig, Iris V, New York, NY.
Morgan, Jessie M, Ft Benning.
Peacock, Leoleen I, Wash, DC.

To Japan

Ross, Sylvia, Tacoma, Wash.
Wallis, Nellie E, Albuquerque, NMex.

To Germany

Fanjoy, Bertha J, Phoenixville, Pa.
Orchard, Winifred M, Ft Sill.
Villamaria, Amelia, Ft Leavenworth.

Captain

Romani, Letitia M, West Point, to USAH, Cp Irwin.
Hawthorne, Martha M, Ft Bragg, to USAH, Ft MacArthur.
Irwin, Marguerite M, Ft Carson, to USAH, Ft MacArthur.
Baker, Evelyn E, Ft Leonard Wood, to USAH, Ft Benjamin Harrison.
Brown, Jessie E, Ft Dix, to USAH, Ft Campbell.
Cates, Mildred M, San Francisco, to USAH, Ft Leonard Wood.
Clark, Edith M, Tacoma, to Korea.
Lark, Blanche C, Ft Benjamin Harrison, to Madison AH, Tacoma.

2d Lieutenant

Liming, Marcia L, Ft Knox, to Germany.

ORDNANCE CORPS—

Lt Gen John H Hinrichs, C of Ord

Major

Gilbert, Stanley K, Monterey, Calif, to USA Msn to Venezuela, Caracas.
Carr, Walter L, Independence, Mo, to Korea.
Chapin, William H, Ft Churchill, Canada, to USA Ord Arsenal, Lake City, Independence, Mo.

From Aberdeen Pr Gr to Station Indicated

Amity, Richard F, USA Ord Dist, Cleveland, Ohio.
Prewett, James F, 61st Ord Gp, Ft Bliss.
Blank, Robert F, Hq 1st Region AD, Ft Totten, NY.
Zandy, Deno J, France.
Smith, Homer D, jr, Korea.

To Germany

Brooks, Herrold E, Wellesley, Mass.
Duggan, Walter, Wellesley, Mass.

Captain

Theis, Ethel J, Wash, DC, to Madigan AH, Tacoma.
Burroughs, William D, Warren, O, to USA Elm MAAG, Ethiopia, Addis Ababa.

From Aberdeen Pr Gr to Station Indicated

Albert, Benjamin B, jr, USA Ord Msl Comd, Redstone Arsenal.
Betts, George A, USA Ord Ammo Comd, Joliet, Ill.
Chaplin, Robert M, USA Ord Msl Comd, Redstone Arsenal.
Frazier, Lee V, OC of Ord USA, Wash, DC.
Harrington, George C, Hq and Hq Co USA Elm Fld Comd DASA, Sandia Base, Albuquerque, NMex.
Harris, Duane W, USA Ord Works, Ala, Childersburg, Ala.
Haynes, James T, USA Ord Tk-Autmv Comd, Detroit, Mich.
Hender, Warren E, USA Ord Dist, Birmingham.
Johnson, Charles M, USA Ord Dist, San Francisco, Oakland, Calif.
Johnson, Hugh H, Hq and Hq Co USA Elm Fld Comd, Sandia Base, Albuquerque, N Mex.
Jones, William H, jr, OCOFOrd, USA, Wash, DC.
Mattice, Harold H, Hq USA Gar, White Sands Msl Range, White Sands Msl Range, NMex.
Roth, Loren W, OCOFOrd USA, Wash, DC.
Strohm, Hans W, USA Ord Msl Comd, Redstone Arsenal.
Vaughan, Bernice L, Hq US CONARC, Ft Monroe.
Woeber, Frank A, USA Ord Dep, Letterkenny, Chambersburg, Pa.
Waugh, William L, sr, ARMISH/MAAG, Teheran, Iran.
Zunker, Clara M, Army Pictorial Cen, Long Is City, NY.
Stooke, Willard N, USA Elm MAAG, Taiwan, Taipei.

To USA Elm MAAG, Vietnam, Saigon

Marks, Harry S, Chambersburg, Pa.

From Aberdeen Pr Gr:

McMahon, Patrick B Smith, James D

To USA Elm JUSMAG, Thailand, Bangkok

From Aberdeen Pr Gr:

Blazinka, Joseph J Shipley, John M
Hanline, Donald S

To Japan

From Aberdeen Pr Gr:

Flemming, Fredk F Shively, Robt J

To Korea

From Aberdeen Pr Gr:

Berrier, Jerry A Ludick, Gerald A
Bishop, James M Montgomery, Geo M
Brazil, Hal B Ross, Harold B
Bryant, Robt L Specker, Robt W
Elliott, Robt W Twitchell, Lowell D
Flynn, William F Zahler, Harvey V
Hammer, Hoyt M, jr

To Germany

From Aberdeen Pr Gr:

Allan, Abraham N Ford, Geo L
Fahs, John L, jr Meese, Robt A
Fenney, Thos J

1st Lieutenant

Groves, John W, jr, Ft Bliss, to USA Ord Msl Comd, Redstone Arsenal.
Moses, Charles C, Ft Campbell, to USA Gar, White Sands Msl Range, N Mex.
Bickley, James B, Pittsburgh, Pa, to USA Ord Aberdeen Pr Gr.
Brown, Gene L, Ft Jackson, to USA Ord Aberdeen Pr Gr.
Tilton, Robert C, Ft Story, to USA Gar, White Sands Msl Range, N Mex.
Rodeman, Dean A, Ft Monmouth, to 6th Arty Gp, Ft Bliss.
Searis, Billie E, Aberdeen Pr Gr, to Germany.
Hamm, Elizabeth J, Aberdeen Pr Gr, to USA, RMS, Milwaukee, Wis.

L/C Libby Is Info Chief

Lt. Col. Roland Libby has arrived in Hawaii to become Chief of Information, U. S. Army Hawaii/25th Infantry Division. He succeeds Maj. Duncan M. Emery, who remains as Executive Officer.

Colonel Libby's previous assignment was in Korea. Mrs. Libby and their two children are with him in Hawaii.

To Korea

Freyder, James G, Redstone Arsenal.
Verry, Horace D, Ft Benning.

2d Lieutenant

Gorman, Roland E, Detroit, to dy Sta USA Ord Arsenal, Detroit.
Rousseau, Robert P, Ft Jackson, to Germany.
Gordon, Thomas J, Ft Bragg, to 70th Ord Det, Ft MacArthur.

CHEMICAL CORPS—

Maj Gen Marshall Stubbs, C Cml C

Major

Cronin, Eugene J, jr, Wash, DC, to USA Biological Warfare Lab, Ft Detrick, Md.

Captain

Norton, William A, Army Cml Cen, Md, to USA Elm Navy Actv, Wash, DC, w/sta USN EODTC USNPP, Indianhead, Md.

1st Lieutenant

Kays, John M, Army Cml Cen, to Germany.

2d Lieutenant

Schaevitz, Donald A, Ft McClellan, to USA Gar, Ft Ord.

CHAPLAINS CORPS—

Maj Gen Frank A Tobey, C of F

Major

Raugust, Arnold W, Ft McClellan, to Germany.

Captain

Reagan, John D, Ft Sill, to USARAL.

1st Lieutenant

Capitani, Anthony L, Ft Stewart, Ga, to Bn Cmbt Team, Keflavik, Iceland.

TRANSPORTATION CORPS—

Maj Gen Frank S Besson, jr, C of F

Lieutenant Colonel

Macken, John J, Ft Eustis, to Japan.
Miller, Joseph B, Ft Eustis, to USA Elm MAAG, Taiwan, Taipei.

Major

Moses, Dewey F, Wright-Patterson AFB, to dy Sta OCOFT USA, Wash, DC.

Captain

McCormack, Robert F, Arlington, Va, to USAAVNS, Ft Rucker.
Bell, David A, Ft Eustis, to 81st Trans Co, Ft Riley.
Strange, Loren C, Ft Rucker, to 19th Trans Co, Ft Benning.
Wilkinson, Edward S, Casablanca, Morocco, to USA Trans Rsch and Engr Comd, Ft Eustis.

To Dy Sta OCOFT USA Wash, DC

From Wright-Patterson AFB:

Gardner, John L Muter, Joseph J

To USATTC, Ft Eustis

From Ft Rucker:

Hale, Warren C Paulson, Norman

From Ft Eustis, to Station Indicated

Kelly, Keith S, Hq USA Trans Sup and Msl Comd (7560) St Louis.
Leeper, John J, 13th Trans Bn 2d Inf Div, Ft Benning.
McNeill, Arlen A, USA Elct Pr Gr (6470) Huachuca.

Mensch, Donald H, 2d Log Comd Ft Ord

Optiz, Donald J, USASCS (6400-05) Ft Msl mouth.

Roosen, Merlin B, 556th Trans Co, Ft Lee.

Sagui, John C, Hq USA Gar (2141) Ft Ritchie.

Sarber, William R, jr, USATTCF (7530) Mason.

Talley, Boliver E, jr, Cp Leroy Johnson New Orleans.

Army Switches Paydirt To Searchlight

Operation Searchlight is the name for the Army's new campaign to stimulate suggestions for improving operations.

Objective is to secure from Army military and civilian personnel the greatest possible number of ideas for more economical operations through improving procedures, equipment, and materiel.

This campaign differs from Project Paydirt, the Army-wide suggestion campaign of two years ago which solicited suggestions covering all fields of Army operations. Operation Searchlight will

identify known problems and solicit suggestions for their solution throughout this fiscal year.

Publicity materials from Army Headquarters will stress activities and situations common to many commands and services. Commands, installations, and activities will in turn identify and publicize their own knotty problems.

The goal for FY '60 is 250 suggestions per 1000 employees. The '59 record was 204 per 1000.

CHIEF WARRANT OFFICERS—

Brunstein, W-2 Edward J, Colorado Springs, Colo., to 4th Msl Bn 55th Arty, Thule, Greenland.

Reimer, W-2 Jacob E, Ft Belvoir, to 12th Avn Co, Ft Sill.

Watters, W-2 Keiran J, Warrenton, Va, to 4th USASA Fld Sta, Asmara, Eritrea.

Rigg, W-2 Clifton F, Killean, Tex, to Turkey.

Vankolonis, W-3 Benedict A, Phoenixville, Pa, to USASSETAF.

Reynolds, W-4 Thomas J, Cp Irwin, Calif, to 162d Ord Co, Sandia Base, NMex.

Holland, W-2 Thomas H, Ft Sill, to Hq USA Gar, Ft Jay.

Lehman, W-2 Leon N, Sandia Base, NMex, to USA Ord Arsenal, Picatinny, Dover, NJ.

Macdonald, W-2 John D, Ft Sill, to USA Trans TC, Ft Eustis.

Merz, W-2 Martin P, Ft Sill, to Hq USA Gar, Ft Jay.

McGuire, W-2 Everett R, Ft Rucker, to Korea.

Carls, W-2 John A, Ft Bliss, to 28th Arty Gp, Selfridge AFB, Mich.

Rhyne, W-2 Lee, Ft Dix, to 24th Arty Gp, Lumberton, NJ.

Lankard, W-3 Delbert W, Wash, DC, to USA Inter Am Geodetic Sv Prof, Ciudad Trujillo, Dominican Republic.

To Germany

Morris, W-2 Lewis B, Ft Meade.

Schonert, W-2 Ralph E, Ft Bragg.

Barr, W-3 Walter J, Ft Carson.

Breault, W-2 Frank H, Long Island.

Wilke, W-2 Harlan A, Ft MacArthur.

Duncan, W-3 Robert G, Ft Bragg.

To France

DiMarino, W-3 Nicholas J, Ft Eustis.

Eaker, W-3 John P, Milwaukee, Wis.

Shelley, W-3 Royden R, Ft Eustis.

Fielding, W-2 Lee R, Ft Eustis.

Lintner, W-2 Jack V, Ft Jay.

Hatch, W-4 Howard G, Ft Eustis.

Sharp, W-2 David M, Ft Meade.

Eldracher, W-4 John W, Governors Island.

APPOINTED IN RA—

2d Lieutenant

Thompson, Billie F, OrdC (distinguished Mll Stu Sr Div, ROTC).

2d Lieutenant

Weinberg, Langston W T, Ft Rucker, to USA Trans Rsch and Engr Comd, Ft Eustis.

MILITARY POLICE CORPS—

Maj Gen Haydon L Boatner, PMG

Lt Colonel

McClary, William T, Ft Campbell, to USA Elm SHAPE, Paris, France.

Freeman, Eugene M, Chicago, to USA Gar, Ft McClellan.

Major

Mulcahy, Julia J, Ft Meade, to Korea.

1st Lieutenant

Moe, Richard L, Sandia Base, NMex, to Korea.

WOMEN'S ARMY CORPS—

Col Mary L Milligan, Director

Major

Dunbar, Ellen V, Ft McPherson, to USA Ord Aberdeen Pr Gr, Md.

Army Tells Quotas For EM Promotions

The Army has released the following temporary promotion quotas to major commanders for the month of December 1959:

E-9	253
E-8	950
E-7	150
E-6	125
E-5	2962
E-4	15056

Promotion criteria for promotion to all grades remains the same as for November 1959 with a minimum of eight months in grade E-8 required for advancement to grade E-9.

Appointments to pay grades E-7, E-6, and E-5 are not authorized in the following MOS:

To E-7: 073, 112, 121, 151, 171, 191, 192, 208, 421, 425, 524, 542, 551, 553, 701, 713, 717, 731, 732, 762, 764, 767, 768, 933, 941, 943, 951, 952, 953, 962, 965, and 971.

To E-6: 073, 112, 121, 151, 191, 192, 224, 313, 542, 551, 553, 555, 612, 631, 632, 701, 715, 716, 717, 732, 763, 764, 843, 911, 934, 941, 951, 952, 953, and 962.

To E-5: 141, 142, 191, 192, 194, 223, 224, 226, 421, 524, 525, 542, 546, 551, 553, 555, 621, 631, 632, 643, 673, 711, 714, 715, 716, 763, 764, 765, 767, 768, 911, 941, 943, 951, 952, and 965.

To Off Tng Co US WAC Cen, Ft McClellan

Hotchkiss, Jessie A, New York.

Van Auken, Cynthia J, Colorado Springs, Colo.

Captain

Russell, Marilyn J, Milwaukee, Wis, to WAC Det Hq Com, Fitzsimons AH, Denver.

McWilliams, Bonnie J, Ft Devens, to US WAC Cen, Ft McClellan.

To Off Tng Co US WAC Cen, Ft McClellan

Bell, Edith M, Arlington, Va.

Engels, Virginia I, Cp Kilmer.

Immel, Mary L, Aberdeen Pr Gr.

McCafferty, Jean F, Ft Belvoir.

Moon, Lou A, Chicago.

Newberg, Mildred, Wash, DC.

Shirlaw, Helen A, Denver.

1st Lieutenant

Ingersoll, Hazel M B, Ft McClellan, Ala, to 95th Civ Affairs Gp, Ft Gordon.

Elmore, Carol A, Chicago, to USA WAC Cen, Ft McClellan.

O'Clair, Joyce W, Ft Dix, to US WAC Cen, Ft McClellan.

Reed, Anita A, Ft Monmouth, to USA RMS, Shreveport, La.

2d Lieutenant

Danielski, Charlotte M, Ft Leonard Wood, to USA WAC Cen, Ft McClellan.

Merrill, Pauline D, Ft Hood, to Germany.

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WARRANT OFFICERS—

Santiago, Charles L, Ft Carson, to USA Gar, Ft Totten, NY, w/sta Bellmore, LI, NY.

Pyle, Carroll E, Ft Bliss, to Turkey.

RETIRED—

Colonel

Prahlnski, A, AGC

McCarthy, G P, CE

McAfee, C E, JAGC

Blair, J S, 3d, Arty

Conquest, W W, AGC

Heldner, A A, Inf

Kelsh, W J E, MPC

Schmelz, R W, Arty

Wild, H H, AGC

Lt Colonel

Hopson, B J, ChC

Mosley, L M, ANC

Blore, Richard E, pd (60%) fr temp disab

ret list.

Walkowski, J A, MSC

Lusk, W A, MPC

Sharp, W B, ChC

Major

Carruthers, Hector K, Arty, pd (100%).

Barrett, Ruth, ANC.

Spencer, Vernon H, pd (60%) prev orders

corrected.

Allen, Martha D, WAC.

Jensen, Wanda, ANC.

Jennings, Catherine T, ANC.

Captain

Arman, Robert C, pd (100%) fr temp disab

ret list.

Retired Upon Application

Colonel

Partin, Everett W, MSC.

Lt Colonel

DeAngellis, A, Inf

Carlson, E O, Arty

Hines, C C, Arty, as

Moore, R A, TC

Col

Krull, H E, OrdC

Lorenz, E H, Jr, Arty

Major

Stickel, V J, TC

Duffy, R N, Inf

Michael, J, Arm

Fowler, G, AS

Moore, G C, MSC, as

Santiago, A C, QMC

Lt Col

Captain

Greene, Edward W, Sig C, as Maj.

Thornley, John D, AS.

Squires, Dale C, Arty.

—Continued on next page

OFFICERS RETIRING OR SEPARATING FROM THE SERVICE

If you are retiring or separating from military service or have already left and are considering seeking a position in civil life, we may well be of real assistance to you in effecting your transition to the right job and career.

As career counselors, we have helped many officers whose background had been largely or wholly in the armed forces, to secure satisfying positions in commerce or industry. In counseling with them, we enabled them to recognize the adaptability of their background and experience to jobs for which they were particularly suited, and which had long range potentials.

We analyzed and pointed out the values and abilities they had to offer, and helped determine the right markets for them. We then developed a program to enable them to secure that position, and directed all their activities until they were established in it.

We invite you to investigate how our services can aid you in your particular circumstances to begin a new career. Our program is designed to enable us to work with those stationed at a distance from New York.

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Honor B/G Counts



BRIG. GEN. Gerald A. Counts, right, receives the Legion of Merit award (second Oak Leaf Cluster) from the USMA Superintendent, Lt. Gen. Garrison H. Davidson. General Counts, USMA '17, retired from the Army and from his position as Dean of the Academic Board at the Academy on 30 September. The award was given to General Counts for "exceptionally meritorious conduct in the performance of outstanding services from August 1945 to 30 September 1959... as educator, leader and constant exemplar of soldierly conduct. General Counts exercised a decisive influence on the careers of innumerable cadets and junior officers..."

Prior to becoming Dean of the Academic Board, General Counts had served at the Academy as Professor of Physics and Chemistry and later as head of that department.

New Dean is Brig. Gen. William W. Bessell.

New USMA Dean

The article in last week's JOURNAL, on page 2, reporting that Brig. Gen. William W. Bessell had succeeded Brig. Gen. Gerald A. Counts as Dean of the Academic Board at the U. S. Military Academy, was accompanied by the wrong photograph. The illustration used was actually a portrait of Col. H. E. Allen. General Bessell's correct photograph appears herewith.

General Bessell had been Professor and Head of the Department of Mathematics, in which post he has been succeeded by Col. Charles P. Nicholas.



Brig. Gen. Bessell

Col. Colby Wins History Award

The initial Moncado award of the American Military Institute for outstanding articles on Military Affairs, has been awarded to Col. Elbridge Colby, USA-Ret., 4560 Indian Rock Terrace, N. W., Washington, D. C., for a study of "Elihu Root and the National Guard" published in the Spring issue of 1959.

Colonel Colby, who retired in 1948, has long been a writer on military topics in service journals, law journals, and general magazines, and is author of military books. Twenty years ago he was awarded the Toulmin Medal for articles on Marlborough in the Military Engineer. He has served as a professor at George Washington University where he organized a new and successful department of journalism.

Army Orders

From preceding page—

Chief Warrant Officer

Benton, W-2 Howard E. Arty.
Jones, W-3 Cleveland H. AGC.
Woods, W-3 O'Neill, Arty.
Levitt, W-3 Thomas J. QMC.
Gill, W-2 Norman, Ord C, as W-3.
Mietlowski, W-2 John F. QMC.
Morrison, W-2 Alan C. QMC.
Killion, W-2 James R. CE.
Nokes, W-3 James C. AGC.
Seavey, CWO-2 Powell J. MSC.
Chickering, CWO-4 Frederick L. AGC.

OFFICERS TO TEMP DISAB RET LIST—

Libbey, Lt Col Walter J. disch as M/Sgt.
Neville, Lt Col James M. DC (40%).
Farrell, Maj Hugh R. CE, as Lt Col (60%).
Funkhouser, CWO-3 Elliott M. CE (60%).

OFFICERS REMOVED FR TEMP DISAB RET LIST—

Smith, 2d Lt Gerry D.

RESIGNED—

Erlenkotter, Maj David, Arty.
Elias, Maj Woodrow L. ChC.
Tobey, Capt Joel N. Inf.
Roellig, Ruth W. ANC.
Luetge, 1st Lt Arnold E. QMC.
Morgan, 1st Lt Jerold A. Arty.
Kirklighter, 1st Lt Donald B. Inf.
Hawkins, 1st Lt Billy W. Arty.
McQuarrie, 1st Lt Robert W. Armor.
Garrett, 1st Lt James W. Armor.

PROMOTED IN RA—

Cully, Irene E. ANC, W/DR 7 Oct '59.
W/DR 3 Oct '59:
Raley, P T, ChC Sandberg, W K, ANC

To Major

W/DR 30 Sep '59:
Burke, J R, SigC Robinson, G E, Arty
W/DR 4 Oct '59:
Jackson, C A, Inf Vaninetti, G A, VC
Wolf, John F, JAGC
W/DR 7 Oct '59:
Williams, Jay B, Inf Lavin, Peter E, Arty

To Captain

W/DR as indicated:
Huntington, Raymond F, Inf.
W/DR 30 Sep '59:
Fields, C E, CmlC Birmingham, D F,
Larsen, David P, CE Arty
W/DR 1 Oct '59:
Cook, R J, Jr, OrdC Forbes, S R, CE
Coroneos, P P, Arty Moss, Robert E, TC
W/DR 2 Oct '59:
De Sonier, H L, OrdC Gray, Mary F, ANC
W/DR 3 Oct '59:
Fallon, Joel B, SigC McGinnis, W A, Arm
Husa, R F, OrdC Stewart, D T, MPC
W/DR 5 Oct '59:
Harber, Lee J, Arm Ranney, F J, FC
W/DR 7 Oct '59:
Bellis, W H, Arty Hadad, G A, Arty
Churchill, J B, Arty Wallace, F E, Arty

To 1st Lieutenant

W/DR as indicated:
Correll, Ralph T, Inf, 4 Oct '59.
Keith, Donald M, Sig C, 7 Oct '59.
W/DR 30 Sep '59:
Hawkins, R S, AGC Danielson, J J, MSC
Cedola, V J, MSC Darnauer, P F, MSC
W/DR 1 Oct '59:
Milliron, J F, Inf Zickel, R E, Inf
Swift, John B, Inf
W/DR 2 Oct '59:
Mudgett, J S, CmlC Maeder, D F, MSC
W/DR 3 Oct '59:
Montgomery, R D, Reynolds, G P, AGC
AGC Jordan, F F, MSC
W/DR 5 Oct '59:
Winkler, C G, OrdC Peterson, C W, MSC
Neitzel, R F, MSC
W/DR 6 Oct '59:
Cooper, W McL, Arty Klinchen, R P, MSC
Druitt, C A, Inf Murrell, D S, MSC
Heldmyer, H F, MSC

To CWO-3

W/DR as indicated:
Weltzner, Daniel N, MSC.

ROTC Staff Revamped

With the exception of one officer, there has been a complete changeover of officer personnel of the ROTC staff at Eastern Washington College of Education, Cheney, Wash.

Newly assigned are Lt. Col. Erwin G. Nilson, PMST, who returned from a KMAG assignment and prior to that was commandant of the Army's Cold Weather Indoctrination School of Ft. Greely, Alaska; Capt. Bob L. Gregory, Asst PMST, recently returned from the 1st Cavalry Division, Korea; and Capt. Thomas R. Whalen, joined the staff from the Advanced Course at Ft. Benning, Ga. The remaining member of the staff is Capt. Joseph V. Bailey, who recently completed his third year at EWC.

RA PROMOTIONS CONFIRMED—

To Colonel
Pauley, John L, Jr, Inf.
To Lt Colonel
Gott, William E, MSC Sikes, Glenn A, Inf
Olsen, E S, Jr, DC Walker, I M, ANC
To Major
Elliott, R B, CmlC Barrett, W P, Ch
Harms, E H, Ch Bates, John F, SigC
Moriarty, R L, Arty Bell, W B, DC
Ost, Lincoln E, Arty Cassias, C E, Arty
Quillan, E L, AGC Fletcher, E W, Arm
Van Buskirk, L E, Monroe, E M, Jr, TC
OrdC Nishimura, B N, Inf
Wallace, J L, OrdC Post, Jack H, Arty
Bahr, H J, SigC Price, Marvin L, Inf
Bakewell, A L, Arm Vonnahmen, F H, DC

M/G Booth Takes 2d Region Command

Maj. Gen. W. H. Hennig has relinquished command of the 2d Region, Army Air Defense Command to Maj. Gen. Robert H. Booth at Ft. Meade, Md.

General Hennig, who came to 2d Region from an assignment as U. S. Military Attache at London, leaves for his new post as CofS North American Air Defense Command, Ent AFB, Colorado Springs, Colo.

General Booth comes to the 2D from Headquarters, U. S. Continental Army Command, Ft. Monroe, Va., where he served as Assistant to the Deputy CofS for Operations, Plans and Training.

To Captain

Bean, C R, Arm Fliser, D D, SigC
Blaser, C O, OrdC Ford, A T, Arm
Bremer, J H, Inf Gannon, T G, QMC
Bryant, D T, Jr, QMC Gilliam, R, SigC
Dunham, G L, CmlC Griswold, W H, Jr,
Durany, J A, AGC OrdC
Estep, G R, QMC Harris, J R, Inf
Goddard, R M, Jr, Jones, T M, MPC
JAGC Judge, R F, TC
Hughes, P B, QMC Kerr, R L, Jr, MSC
Hyde, J L, CE Leshner, E R, MSC
Jackson, J H, OrdC Lippman, R E, WAC
McKinley, H J A, McClean, R J, Inf
AMSC Moffatt, E G, CE
Miller, R A, MC Moseley, B R, Arty
O'Brien, T E, QMC Muller, L J, OrdC
Schneider, M E, OrdC Primm, C F, Jr, OrdC
Stephens, J H, Jr, Inf Quast, L L, SigC
Williams, L A, CE Rousseau, W C, Arm
Anderson, R W, Inf Schult, A E, MPC
Austin, K S, Inf Staum, V E, Inf
Berrier, J A, OrdC Stearns, C L, Arty
Bond, G T, Inf Thomas, R, Jr, SigC
Cassidy, J J, Inf Thompson, M J, WAC
Cox, F W, Jr, AGC Williams, C L, TC
Davis, G C, Arty Yarbrough, C Van
Devany, R B, WAC Der V, Inf

To 1st Lieutenant

Acre, L D, Inf Williams, R L, Inf
Amerson, H S, Arty Wiser, B M, Arm
Bjorn, E D, Inf Alcken, L B, Inf
Bradford, C E, MSC Alexander, J E, Jr, Inf
Brown, L D, Arty Allison, R H, Arty
Burke, F J, Jr, Arty Avera, G J, Inf
Codd, N J, Jr, Arty Bassett, G C, OrdC
Coffman, R L, Arm Bunc, G E, MSC
Dacus, L H, MSC Dee, J P, WAC
Grant, G E, AGC Deel, Arlin, CE
Gwaltney, R L, AGC Delandrod, D J, AGC
Halbert, M J, WAC Eastwood, C A, Jr,
Herlik, Q E, Arty QMC
Houlis, H S, Inf Garside, R E, Arty
Jeter, M S, Arty Grier, W C, Arty
Johnson, D S, SigC Hall, W E, Arty
Lingaltis, F V, CE Harms, N D, Arm
Losik, R C, Inf Hobin, R M, SigC
Mapes, J B, Jr, TC Hutson, L E, OrdC
Massey, O A, Inf Johnson, J M, Arty
Muth, A J, CE Kitchen, K S, Inf
Nourse, R H, Inf Kite, John C, OrdC
Pinkston, W R, Jr, Knipp, J D, CmlC
QMC McCullough, J A, Inf
Steffen, A J, Inf Simons, S I, MPC
Stuart, J R, QMC Valerius, M R, Inf
Thompson, J D, SigC Witt, E L, SigC
Wakefield, D Y, QMC

To CWO-4

Purvis, Fred M, OrdC.

TEMPORARY PROMOTIONS—

Lt Colonel

Applewhite, K H, La Patka, T M, Inf
QMC McCaffrey, H T, AI
Bean, G H, Arty Payne, W N, Inf
Burgasser, F X, Arty Peters, E P, SigC
Clark, J L, Jr, Arm Plumley, R R, Arm
Crawley, J J, AGC Ried, G H, Inf
Dinsmore, O R, Jr, TC Stanford, L E, Inf
Evans, E J, TC Ungerleider, A D,
Henderson, W G, TC Arm
Jones, E E, CE Walker, M A, SigC
Joost, H K, Inf Wuest, C H, Arty
Knight, H H, Inf

To Captain

Bonsell, Edward H, 3d, AGC.

To 1st Lieutenant

Watkins, H G, Jr, Fishar, Paul D, Inf
QMC Kessinger, J McF, Inf
Tuel, C J, MPC Logan, R W, SigC
Lowe, L E, CE McKinley, F W, MSC
Pelot, L M, Jr, AS Norris, J B, SigC
Benoski, J, Jr, Arty O'Connell, M P, Arty
Binder, F E, Arm Russell, G G, Jr, Inf
Davis, H M, Jr, Arty

BRANCH ASSIGNMENTS—

Barrett, 1st Lt William T; fr Armor to MPC.
Hart, 1st Lt Jack S; fr Armor to MPC.
Tilton, 1st Lt Robert C; fr Arty to OrdC.
Weeks, 1st Lt Richard G; fr Inf to TC.
Huskey, 1st Lt James E; fr Inf to TC.
Brown, Capt Lloyd J; fr Inf to Armor.
Arnold, 1st Lt John M; fr Inf to FC.
Downing, 2d Lt Peter S; fr AS (Cml) to AS (Arty).

DESIGNATED ARMY AVIATORS—

Gillham, 1st Lt John N, Jr, Arty-NG.
Lobb, 1st Lt Jean H, Arm-NG.
Fox, Capt Fleming M, 3d, Inf.
Keyes, 1st Lt Edmund F, TC.

Senior Army Aviators:

Polanski, Capt Edward G, Inf, NG.
McKenzie, CWO-2 George T, AUS.
Fitch, CWO-2 Ralph M, Jr, AUS.
Ludwig, CWO-2 Dean R, USA.
Thompson, Capt Bernard D, Jr, Arty.
Cominos, 1st Lt Anthony M, TC.
Wilson, CWO-2 Grant P, USA.

Master Army Aviators:

Olshovik, Maj John, Inf.
Willson, Maj Deanel B, TC.

ADVANCED ON RET LIST—

Ustach, M/Sgt Stanley F, to Maj.
Gramlich, M/Sgt William, to Maj.
Lucas, M/Sgt Clifford R, to Maj.
Meyers, M/Sgt Andrew J, to Capt.
Matthews, M/Sgt John A, to Capt.
Flood, M/Sgt Clarence D, to Capt.
Harvey, M/Sgt Ralph O, to Capt.
Matthews, Sfc Joseph S, to 1st Lt.
Stromsted, M/Sgt Arthur R, to CWO-2.
Bateman, M/Sgt Dick S, to WO.
Eruce, M/Sgt Ralph, to WO.
Brinson, M/Sgt Elmer J, to WO.
Eller, M/Sgt Herman H, to WO.
Sisney, Sfc Wilbur H, to M/Sgt.
Turkus, Sfc Frank, to M/Sgt.

82d Abn. Div. Receives Jet-Powered 'Copter

A Bell HU-1A Iroquois has arrived at the 82d Airborne Division's Ft. Bragg, N. C. headquarters which becomes the second Strategic Army Corps (STRAC) unit to receive the jet-powered helicopter.

The 101st Airborne Division at Ft. Campbell, Ky. was the first STRAC outfit to be equipped with the Army's new frontline utility helicopter produced by the Bell Helicopter Corporation of Ft. Worth, Tex.

After unit pilots have been checked out in the helicopter it will be phased into the 82d pentomic division's operation. Basic mission of the Iroquois is to move troops and supplies within the battle zone.

Capt. R. M. Cory, 82d Airborne Division's aviation company commander, accompanied pilot WO W. E. Moore, Jr. and SFC Bense, all of Ft. Bragg, on the cross country delivery flight from the Bell Helicopter factory.

EM RET AND TRF TO USAR—

Wolfe, Cpl Jack T Schafer, M/Sgt R L
Hardy, M/Sgt T Terranova, Sfc P S
Hewett, Sp7 J H Thompson, M/Sgt S
Sarto, Sgt Cecilio Viney, Sp6 Louis K
Tyree, M/Sgt T Whitt, M/Sgt E O
Brooks, Sfc T W Abel, M/Sgt L G
Howard, Sfc V L Callos, M/Sgt M S
Robbins, M/Sgt H C Dixon, M/Sgt H E
Allen, Sfc Robert E Miller, M/Sgt Vernon
Burke, M/Sgt H E Ormsby, Sfc R T
Dawe, Sgt George W
Johnson, M/Sgt E D

ENLISTED MEN RETIRED—

Savery, M/Sgt Charles R, as Maj.
Williams, M/Sgt William R, Jr, as Capt.
Ford, M/Sgt George R, as 2d Lt.
Patrick, M/Sgt Samuel, Jr, as Lt Col.
Mahaney, M/Sgt Charles E, as Lt Col.
Scott, M/Sgt Carson R, as Capt.
Soucy, Cpl A J, Jr McDonald, M/Sgt T B
Banta, M/Sgt A D Santiago-Mundo, Sp4
Morse, Sp5 J A, Jr Elias
Stayton, Sp5 N M Simmons, Sfc H
Esposito, Pvt M G, Jr Baxley, Pfc K D, Jr
Koloma, Pvt Harvey Ridings, Sfc J C
Stenson, M/Sgt D L

Above Army Orders include SO Nos. 193; 194; 195; 196; 197 & 198.

From page 9—

18 Aug: Foster, William B; McHugh, Ed-
gar L; Rossi, Velma M.
22 Aug: Shortt, G E, 3d.
23 Aug: Stiles, C S.
24 Aug: Eaton, F C; Kampwerth, D H;
Leonard, William M; Shelton, Ray D.
28 Aug: Myers, Milo E; Pantall, J T, Jr;
Phillipovich, Darrell.
31 Aug: Gaessler, W B; Hoyt, Norman W.
5 Sep: Vino, Jane M (NC).
8 Sep: Carpenter, James; Young, Virgil L.
9 Sep: Staubs, Harry L.
10 Sep: Larrison, C B, Jr.
12 Sep: Hannah, R J.
13 Sep: Minter, R E; Nelson, Dudley F, Jr;
Williamson, Harry W, Jr.
20 Sep: Atherton, T L; Lockwood, William
D.
28 Sep: O'Leary, C P (ChC).
29 Sep: Burkey, W L (ChC); Campbell, J J
(ChC); Leggett, C M, Jr; Mackey, J E; Mc-
Gowan, J J (ChC); Mullin, Hugh J (ChC);
Webb, George T.
30 Sep: Allison, James M; Bertram, G O;
Ravella, P A.
1 Oct: Curry, R D; Grasser, John B;
Hewitt, A G, Jr; Houseman, Harry E (ChC);
McCartney, F S; Rose, Martin W; Sample,
William H; Simmons, Harry J; Smith, Dan-
iel A.
3 Oct: Benjamin, George D; Dunlap, Ken-
neth D; Gillette, Winifred E (NC); Lydon,
Phyllis L (NC); McMahon, Mary A (NC);
Shive, C B, Jr.
4 Oct: Brenner, Edwin W; Cooper, Ver-
non R; Davis, Robert H; Goss, B J; Ibatuan,
Polly, Jr; Merritt, Cyrus J; Spencer, Hen-
ry L (ChC); Stevens, Roger L; Wright,
George R.

To 1st Lieutenant
29 Sep: Hass, Paul H.

To CWO-3
30 Sep: Proffitt, Vernon R.
1 Oct: Weber, Arthur R.
2 Oct: Davis, Lloyd E.
6 Oct: Johnson, Clarence W.

TEMPORARY PROMOTIONS—

To Major
Bolton, Wayne F; Bryant, James A; Jor-
gensen, Richard I; Little, Theodore D;
Stevenson, Charles L.

To 1st Lieutenant
Eagan, Arlene L (NC).

REGAF PROMOTIONS CONFIRMED—

To Colonel
Bailey, James E; Hernlund, R T.

To Lt Colonel
Agostinho, R J; Armstrong, John F; Nut-
hall, A J.

To Major
Greenfield, William D; Kroman, G F; Rus-
sell, Carl M (MC).

To Captain
Acker, Lewis F, Jr; Baker, John L, Jr;
Kramer, Andrew J; Love, George W; Mc-
Campbell, L L; Meador, James S; Parsons,
Robert K; Rhymes, C C, Jr.

To 1st Lieutenant
Hettkamp, D M; Mercuro, G J.

REGAF APPOINTMENTS—

As Captain
Carey, John H; Marcollo, William T
Watkins, William T

As 1st Lieutenant
Anderson, Donald G; Chovanec, Albin E

As 2d Lieutenant
Distinguished Mil Grads, AFROTC
Avery, Allan F; McDonald, Charles M
Cloud, Donald R; McDowell, Harry M
Glamm, Bobby G; McKee, Kenneth R
Gunter, Gerald N; Sakella, John L
Haines, Robert G, Jr; Vaughan, John C, 3d
Henley, Jackson A

Distinguished Officer Candidate Grads
Sexton, Harry; Wassall, James W

HONORABLY DISCHARGED—
Messing, Capt Marilyn J.

USAF Tops Field,
Army, Navy Lose

The Army and Navy lost, the Air Force won and the Coast Guard split during the past two football weekends.
Scores for the 3 October weekend were: Army 14, Illinois 20; Navy 7, SMU 20; Air Force 27, Trinity 6; and Coast Guard 7, Norwich 20.
On the 10 October weekend the scores read: Army 11, Penn State 17; Navy 6, Syracuse 32; Air Force 21, Idaho 0; and Coast Guard 17, Wesleyan 15.

Col. Roberts Heads
OSI At Clark AB

Col. William W. Roberts has assumed command of the 42d OSI District Office at Clark Air Base, P. I., providing criminal, counterintelligence, and other investigative service on behalf of Hq, PACAF to Air Force organizations in the Philippine Islands.
Before coming to Clark, Colonel Roberts was District Commander of the 2d OSI District (IG) USAF located in New York City where he was stationed since 1957.
Prior to that time Colonel Roberts served as a Legislative Liaison Officer with the Office of Legislative Liaison, Office of the Secretary of the Air Force in Washington, D. C.

CORRECTION—

Harris, Col Richard C. prev ors re his rsg fr Maxwell AFB to 1134th USAF Sp Act Sq, Hq Comd USAF, Ft Myer, Va, IATR "to 1127th USAF Fld Act Gp, Hq Comd USAF, Ft Belvoir, Va."

AIRMEN ADVANCED ON RET LIST—

To Major
Albert, M/Sgt Henry F; Willoz, M/Sgt George P.

To Captain
Booker, M/Sgt Christopher; Palmer, M/Sgt Charles B; Torresani, M/Sgt R P.

To 1st Lieutenant
Alton, M/Sgt Orville E; Cochran, M/Sgt Walter; Kelley, M/Sgt Oscar.

To CWO-2
Fewins, M/Sgt W S; Franz, M/Sgt Charles A; Kaminsky, M/Sgt F J; Pulliam, M/Sgt Dwight J; Turner, M/Sgt Charles J; Walker, M/Sgt Roger E; Wall, M/Sgt James H.

To WO
Talley, M/Sgt Albert E.

AIRMEN RETURNED TO RET STATUS—

Mansfield, M/Sgt Emmette, w/30% pd; McCann, M/Sgt John W, w/30% pd.

AIRMEN RETIRED—

SM/Sgt: Robinette, Eugene W, as Capt.
M/Sgt: Clokey, Edward L; Groover, C W; Hall, Earl J; Helser, Francis J; Jones, Lawrence T; Lee, Corb P; Martin, Jack E; Maddox, Carl J; Mitchell, Curtes; Patsko, John B.
T/Sgt: Gill, Robert E, as M/Sgt; Graham, Clyde E; Materne, Jacob H; Reynolds, William A; Shaul, Harold V, as Maj; Vaught, Jack F; Yancey, Herschell A.
S/Sgt: Brady, Andrew C; Hyland, Michael J; Jackson, Robert E; Jackson, Woodrow W; Wigman, Edward W, as 1st Lt.
A/IC: Birkes, Donald R; Fligg, Bobby G; Ragland, Paul E.
A/2C: Calhoun, John T; Martinez, Charlie; McDaniel, Kirby H; Moore, Henry; Mullins, James F, Jr; Rowland, Alvin W.

Col. Klein Heads Branch
For Norton I. G. Group

Maj. Gen. Jack W. Wood, USAF Deputy Inspector General for Inspection, has announced assignment of Col. Edward C. Klein to the 1002d Inspector General Group, Norton AFB, Calif.

Colonel Klein, reporting from the Philippine Islands, is Chief of the Supply Branch, Materiel Inspection Division of the Directorate of Readiness and Materiel Inspection. He and his wife, Virginia, will make their home at 145 Marcia Street, Redlands, Calif.

Col. Justice Is Inspector

Col. Dane F. Justice, sr., has been assigned as Inspector at the Dayton Air Force Depot, Ohio, replacing Lt. Col. Orville C. Cutsinger, who will retire.

Colonel Justice reports to DAFO from Headquarters, Pacific Air Force, Hickam Field, Hawaii. He was Director of Engineering Programs for Assistant Chief of Staff, Civil Engineer.

Colonel and Mrs. Justice have four children, Dane F., 22, an A/2C at Schilling AFB, Kans.; Lee Ann, 21, a student at the University of Hawaii, her twin, Jo Ann, who is married and living in Columbus, and William A., 18, a senior in high school in Columbus. Colonel and Mrs. Justice live at 555 Lohnes Dr., Fairborn, Ohio.

SEARS CATALOGUES FOR USAFA LIBRARY

THE U. S. Air Force Academy Library has become the depository for a complete set of Sears, Roebuck and Co. catalogs, preserved on almost a mile of microfilm and spanning the years from 1892 to 1956.

The 51 rolls of film, which trace the history of the American way of living over the past 64 years, were presented this week to Maj. Gen. William S. Stone, Superintendent, by G. A. Cheney, General Manager of the Colorado Springs Sears store. Lt. Col. George V. Fagan, Director of the Library, and members of his staff also were present for the ceremony.

SCHOOL AND CAMP DIRECTORY

The Schools and Camps listed below are effectively equipped to care for the educational and recreational needs of the children of members of the services and this Directory is recognized as an authentic and reliable aid to service parents in solving the problems of child education. For details as to the Schools listed in this Directory address them directly or communicate with the Army Navy Air Force Journal Dept. of Education, 1710 Conn. Ave., N. W., Washington 9, D. C.

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Marine Corps Explains New Procedure For Selection Of Majors To Lieutenant Colonels

A MARINE Corps selection board, authorized to choose 222 unrestricted, 12 Supply Duty and 10 limited duty majors for advancement to lieutenant colonel, has forwarded its recommendations to the White House.

About 65% of the eligible officers will make their number.

This is the first year of a new selection procedure which will remain in effect through Fiscal Year 1965.

The Officer Personnel Act of 1947 envisioned that majors would be considered for advancement to lieutenant colonel during their 18th year of service and that those passed over twice would be retired after completion of 20 years' active duty.

As a result of the hump created during the Korean War, however, majors have been considered for increased rank as early as their 12th year of duty. This situation has been in effect for the past five years and as a result, the remaining officers in the "hump" years normally would be placed in a promotion zone during the next five years.

If the promotion zone system were retained, the majority of those in the "hump" would be considered for advancement in their 18th and 19th years of service. Since seniority determines when officers in a particular year group come up for selection, the most senior officers would benefit by being considered for promotion earlier than their contemporaries in a year group. This would mean that officers with as little as a few months seniority would receive the opportunity of selection as early as two years sooner.

Recently enacted legislation contains provisions permitting unrestricted and

supply majors to be selected for promotion from a zone of consideration, rather than from a promotion zone.

Headquarters said that for FY '60 through FY '64, it is planned to establish both consideration and promotion zones. This procedure permits the Secretary of the Navy to specify the number of unrestricted and Supply majors who may be picked from above and within the promotion zone and from the zone of consideration. No officer will be in more than one of these zones in any one fiscal year.

Those not selected from within or above the promotion zone will have failed of selection for all purposes. Those not chosen from the consideration zone will not be considered to have been passed over. No officers may be picked up from below the zone of consideration.

The following table shows the FY in which each group will be placed in zones and the total years of service in each group.

		TYPE ZONE	
Fiscal Year	Year Group	Yrs. of CommServ	Promotion Consideration
60	43(—)	17	x
	44	16	x
61	43(—)	18	x
	44	17	x
62	43(—)	19	x
	44	18	x
63	44	19	x
	45	18	x
64	44	19	x
	45	18	x
65	46	19	x
	47	18	x
	48	17	x

In implementing the zone of consideration concept, only majors who have not previously failed of selection will be placed in the zone of consideration. Furthermore, Headquarters said, above the consideration zone will be those majors who have had full promotion opportunity possible under law.

To create these conditions, and to insure equality of opportunity for promotion for majors under consideration in FY '60 and succeeding years, a promotion zone of a single officer was established. This officer may be chosen for lieutenant colonel if he is judged "best fitted" to perform the duties of the next higher rank.

In order to afford those officers above the promotion zone who have failed of selection a continuing selection opportunity, the board was authorized to choose a number of the "best fitted" officers from above the zone. The remaining selections to lieutenant colonel will be made from the zone of consideration.

Next year, the senior major not selected in FY '60 (assuming the lone major in the promotion zone is picked) will be placed in a promotion zone. This officer may be selected for advancement if he is judged best fitted.

If the major placed in the FY '60 promotion zone is not selected, he will be afforded the opportunity for selection from above the promotion zone next year.

The remaining selections in FY '61 will be made from a zone of consideration composed of those majors remaining from year groups 1943 (—) and 1944, who were not selected from the FY '60 zone of consideration.

Majors in year group 1943 (—) who were not selected to lieutenant colonel from consideration zones in FY '60 and FY '61 will be placed in a promotion zone in FY '62. The board will be authorized to choose only enough majors in this promotion zone to insure a sum total of about 65%, taking into consideration the opportunities offered in the two previous years.

Year group 1945 will be placed in the zone of consideration along with the remaining majors in year group 1944. The remaining selections to lieutenant colonel will be made from this grouping of officers.

Thereafter, until FY '65, majors in their 19th year of service will be placed in a promotion zone in their 17th and 18th years in a consideration zone.

The second failure of selection will occur in their 20th year of service which coincides with the involuntary retirement point.

HQMC List Tells Promotion Status

The following Marine Corps officers are the last, as of 1 October, who have been promoted, or for whom promotion vacancies existed, under provisions of the Officer Promotion Act of 1947:

GRADE	PERMANENT	TEMPORARY
Major General	John C. Munn	August Larson
Brigadier General (Unr)	George R. E. Shell	Frederick E. Leek
Brigadier General (SDO)	William P. Battell	Paul R. Tyler
Colonel	Max H. La Grone	Alan J. Armstrong
Lieutenant Colonel (Unr)	David H. Lewis	Richard A. Bjornson
Lieutenant Colonel (LDO)	William G. Reid	
Major (Unr)	Jerome J. C. Beau	Willard S. Petersen
Major (LDO)	William Fellner	
Captain (Unr)	Samuel J. Fulton	Wm. C. Bryson, Jr.
Captain (LDO)	Joseph E. Mullen, Jr.	

Navy Orders

From page 7—

Vickery, William C, Jr, Staff ComOPTEV For; to COMGMEvalDet, Roosevelt Roads. Walker, Robert P, InsGen HawSeaFrontier; to Staff ComWestSeaFrontier. Weber, Graydon H, XO NAS, Jax; to CofS and Alde ComFair Jax. Wells, Harold A, BuAir; to CO NROTC Vanderbilt Univ, Nashville. Wilson, J. C. Gillespie, XO NavSta IBeach; to CO NavSta Los Angeles, Long Beach.

COMMANDER

Alexander, John S, JSTAFF CINCUNC/COM USFOR KOREA; to CO NAVRESTC CLEVE. Barager, William E, Jr, CO NAVMARCO RESTC TUCSON; to USS KEARSARGE. Caldwell, Harry H, NAVSUBASE NLON; to BUSHIPS. Everson, Paul B, HYDROFC SUITLAND; to JSTAFF CINCUNC/COMUSFOR KOREA. Hawes, George M, KEY WEST TEST AND EVALDET; to SERVLANT. Huff, William H, OFC OF INFO NAVDEPT; to FAIRWHIDBEY. Allen, Stuart R (SC), NSC NORVA; to SERV LANT. Butterfield, Harry E, Jr, NAAS SAUFLEY FLD PNCLA; to NABATRA COM NAS PNCLA. Carroum, Jefferson H, AEWRON 11; to AIR TRANSRON SEVEN. Everson, John K, NAVCOMM FAC KAMI SEYA; to NAVSECGRU HEDACTY WASH DC. Kerkerling, Stanley W, OFC OF BAR INGLEWOOD NORAMAVINC LOSA; to 4th NAV CRUITAREA COLUMBUS TEM. Larson, Jay E (SC), SERVON THREE; to USAMILTFMGTAGENCY TFCRNCEN HQ 9273 STL. Marquardt, Richard C, USS BOSTON; to MST5 WASHDC. Meyer, William H, Jr (SC), NAVPURCHASINGOFC LOSA; to USS JASON. Ritter, Preston R, CO NAVRESTC NTC SDIEGO; for USS Oriskany. Robinson, Walter P, Jr, USNA ANNA; to USS BAYFIELD. Viegelmann, Adolph, COMSFRANGRU; to WESTSEA FRON. Walton, Nelson C, SERVON ONE; to CO USS TORTUGA. Wooten, Robert J, PATRON 24; USS NORTON SOUND. Dampier, Robert M, NAVSECGRU HEDACTY WASHDC; to CO USS CHARLES R WARE. Gates, Robert L, OPNAV; to USS ANTIETAM. Hudgins, Holder, BARRIER PAC; to NARTU NAS JAX. Vandale, John J, BUPERS; to CO USS SAN PABLO. Cook, Glover H (SC), USS AJAX; to SFRA NAVSHIPYD. Gaat, John R (SC), NAD CRANE; to USS AJAX.

Grimsley, Geleter (SC), BUSANDA; to NAD CRANE. Krapf, Harry J, Jr, USS INTREPID; to 15 ND. Moriarty, Thomas J, CO USS EDSON; to CO FLETC NPT. Shea, William J, USS ZELIMA; to CO NAV RESTC RICH. Schauble, Theodore C, USS ANTIETAM; to CO NROTCU TUFTS UNIV MEDFORD. Rowe, Robert A, CO USS DOUGLAS H FOX; to OPNAV. Sullivan, Edward T, Jr, PROVMAAG KOREA SEOUL; to NAVBEACHGRU ONE. Eder, Willard E, PHIBTRAPAC; to 26 NORAD RGN HANCOCKFLD SYRACUSE. Gullidge, Kenneth E, HATRON TWO; to USS MIDWAY. Griffith, John T, USS VALLEY FORGE; to PACMISSILE RANGE PT MUGU. Baumgaertel, Lawrence F, ATKRON 216; to ATKRON 126. Cable, Jesse F, AFSC NORVA DUINS; to NAS JAX. Grabowsky, Leon, CO USS CATAMOUNT 17; to BUPERS. Harris, John S, FAIRHAWAII; NUCLEAR WPNTCPAC NAS NORIS SDIEGO. Huggard, John J, SFRANGRU; to MSTSPAC AREA. Kliser, William P, ATKRON 42 TEM; to CO ATKRON 81. Lavrakas, Lefteris, CO USS DAVIS; to USS BOSTON. Lewiston, William A, ANTARCTICSUPP ACTY; to ASO PHILA. Paterson, John A, NAVSTA GRCOVSPR; to 12 ND. Peterson, Frank J, USS TICONDEROGA; to USS AMPHION. Raht, Adolphus G, SURANTISUBDEVDCT; to THE JSTAFFOFC JCS WASHDC. Vanston, Henry D, NAVSEC JUSMAG THAILAND BANGKOK; to NAVWPNLAB DAHLGREN. Weatherup, Robert A, CO USS BURTON ISLAND; to OFC OF SPROJOF TECHREP GARDEN CITY.

LIEUTENANT COMMANDER

Alexander, Angelo C (MC), NAVHOSP NAVB GTMO; to NAVHOSP PNCLA. Brudvig, Elmer O, AREAREP FOR NA MOTRA MOFFETT FIELD; to AIRTRANS RON EIGHT. Hall, Donald B, FITRON 103; to FAIRJAX. Harper, Marchetta (NC), NAVHOSP BETHESDA; to NAS PAXRIV. Hedgepeth, Charles H, NLONGRU; to CO USS FLORIKAN. Hoerr, Florence L (NC) MSTSPACAREA; to NAVHOSP OAK. McVey, Don C, ASST ALUSNA MADRID; to USS NEWMAN K PERRY. Sarris, Frank J, AIRTRANSRON THREE; to NATRANSWGLANT. Sullivan, Joseph J, SURANTISUBDEVDCT LANT; to USNAVPGSCOL MONTEREY DUINS.

Walters, Robert L, USS NORFOLK; to OP NAV. Gilbert, John R, CO USS CARP; to OPNAV. Griffiths, Thomas L, USS BENNINGTON; to NAVMARCORESTC NAVWPNLANT WASHDC. Hare, Guy C, 12ND TEM; to NAD OAHU. Hippe, Leroy, NAVMARIANAS; to NAVAD UNIT SAIPANDIST SAIPAN. Johnson, Robert O, 12ND TEM; to AIR TRANSRON SEVEN. Martin, Ward K, NAVSCOLMINWARFARE NAVB CHASN DUINS; to MINPAC. Matthews, Ann F (NC), NAVHOSP ST ALBANS LI; to NAVHOSP BEAUFORT. Parisi, Gloria C (NC), NAVHOSP ST ALBANS LI; to NAVHOSP BEAUFORT. Poutinen, Miriam T (NC), NAVHOSP BETHESDA; to NAS BRUNSWICK. Rogers, Joseph P, Jr, ATKRON 44; to NAV ANTRACOM NAS CORPC TEM. Schaffner, Robert A (SC), USS ROCHESTER; to NAVPURCHASINGOFC LOSA. Steele, Allen L, NAVADUNIT SAIPANDIST; to NAVMARIANAS. Talmadge, Charles J, AFWITRON THREE; to MARQUETTEUNIV MILWAUKEE DUINS. Wills, Thomas J, II (SC), USS NORFOLK; to DESFLOT THREE. Bane, George A, NAAS KINGSVILLE; to USS CORAL SEA. Braid, Robert A, NAS CUBI PT; to HATRON 123. Cocks, Edgar M, USS FISKE; to NAVCEN TORPOFC NPT. Cox, John W, OFC OF BAR EL SEGUNDO; to NAVPHIL. Cress, Warren D, NAVMARIANAS; to USS PRINCETON. Donaldson, William I, AIRSHIPRON TWO; to FAIRQUONSET. Draz, David I, NAVADV UNDERSEAWPN SCOL NAVB KWEST; to CARDIV 20. Gaunt, Richard H, NAVMINDEFLAB PANAMA CITY; to CO USS VENTURE. Gray, Joseph W, NAF LAJES; to AIR TRANSRON SIX. Kehoe, Robert M (SC), 12ND TEM; to SFRANAVSHIPYD. Kistler, Robert H, ANTISUBDEFLANT; to FLESONARSCOL KWEST. Huffman, Gerald M, NAS GLEN; to NARES TRACOM NAS GLEN. Morris, Robert E, HATRON ONE; to NUCLEARWPNTCPAC NAS NORIS SDIEGO. Murphy, Francis J, FITRON 14; to CAR AIRGRU FOUR. St Clair, William F, FASRON FIVE; to FITRON 62. Tate, Claude D, USS THETIS BAY; to ASSTRGNREP FOR NAMOTRA EASTCO NAS NORVA. Vermilya, Robert S, NAVAIR PAC; to FAIR SAN DIEGO. Adams, Frank M, USS NAUTILUS; to CO USS HALFEAK. Brittain, Thomas B, Jr, CO NAVNUCLEAR POWERTU WEST MILTON SITE SCHNET; to CO USS GRENADIER.

Buchanan, Fillmore B, CO USS PERCH; to CO USS CAIMAN. Hanfman, George, Jr, HELTRAGRU ELLYSON FLD NAS PNCLA; to FLETAC SUPPRON ONE. Ives, Thomas K, CO USS VAN VOORHIS; to BUSHIPS. Jones, Ira C, USS DIAMOND HEAD; to NAVPHIBSCOL LCREEK. Menasco, Ralph W, AEWLANT; to AIR TRANSRON 22. Moore, Ronald W, AIRSHIPRON TWO; to AEWRON FOUR. Osman, Robert E (CHC), 3dMARDIV (REINF); to 1stMARDIV (REINF) FMF. Probyn, Robert W, ATKRON 65; to OFC OF SUPSHIP USN AND NAVINSRON NPT NWS SHIP AND DRYDOCKCO NPTNWS. Ranzau, Walter W, PATRON FIVE; to NAV SCOLCOM NAVSTA NPT. Sanderson, James R, CARDIV FOUR; to ATKRON 43. Wilson, Phillip A, OPNAV; to DESRON SEVEN. Allen, William A, NAVAIRPAC; to FAIR SAN DIEGO. Dixon, John C, Jr, AIRDEVON THREE; to FITRON 11. Douthett, Richard B, AIRANTISUBRON 31; to NAENGRFAC (SHIPINSTL) NAMAT CEN PHILA. Girard, Jean L, NAVAIRPAC; to FAIR SAN DIEGO. Herndon, Elmer L, AIRSHIPRON TWO; to MATS SCOTT AFB. Hughes, Leslie D, ATKRON 44; to AIRDEV RON FIVE. Issitt, Donald K, NAVAIRPAC; to FAIR SAN DIEGO. Jones, Grover C, AIRSHIPRON TWO; to AEWRON FOUR. Lippincott, Leslie C, PATRON 10; to NA TESTCEN PAXRIV. Marshall, George L, NAVAIRPAC; to FAIR SAN DIEGO. Morgan, Clifford L, CARDIV 20; to BUAER. Mott, William R, BUAER; to AIRSHIPRON THREE. Packer, Morris A, HELANTISUBRON FIVE; to NAS KWEST. Patterson, Irving L, NAVAIRPAC; to FAIR SAN DIEGO. Putman, Robert E L, Jr, AEWRON 11; to ECMRON TWO. Rambur, William M, USS THETIS BAY; to NAS WHIDBEY ISLAND. Reilly, David R, AIRDEVON FOUR TEM; to USS SARATOGA. Saubers, Maurice D, NAVAIRPAC; to FAIR SAN DIEGO. Vantol, John, ROYALNAVJOINT ANTISUB SCOL LONDONDERY; to USS COTTON. Walston, William C, AIRTRANSRON 21; to NAVRSCHBROFC PASADENA. Warner, Robert L, NAVAIRPAC; to FAIR SAN DIEGO. White, Robert C, USS STURTEVANT; to NAVPERSCHFLDCTY WASHDC. Wilder, George, Jr, AIRTRANSRON EIGHT; to OFC OF BAR EL SEGUNDO.

Williams, Hexter A. NAVPHIBSCOL LCREEK NAVPHIBASE NORVA; to COM INDIV 41.
Zender, Ralph J. USS LENAWE; to PAC MISSILE RANGE PT MUGU.
Bonner, Kermit H. NAVCOMMFC PHIL; to MSTSNORPACSUBAREA.
Chokas, Nicholas P. DESLANT TEM; to CO USS ROY O HALE.
Crowley, Herbert D. USS WASP; to FLE TACSUPPRON 24 NAPLES DET.
Hayes, James G. FITRON 101 TEM; to FITRON 14.
Hoffman, Paul J. AEWRON 14; to USS STATEN ISLAND.
Hooper, Charles A. Jr. LTPHOTORON 62; to NAS JAX.
Hoover, Ralph A. Jr. FAIRWG 14; to PATRON FOUR.
Korte, Ernest J. CO USS ROY O HALE; to NAVORDU NAVB KWEST.
Leonard, Charles R. PATRON 19; to NAV ANTRACOM NAS CORPC TEM.
Logan, Robert T. AIRSHIPRON TWO; to AEWRON FOUR.
Marquardt, Walter E. Jr. (CEC), NAVPW CEN NAVB GTMO; to ROICC OR OICC BUDOCKSCONTR NAVPW CEN NAVB NPT.
McDermott, Bernard F. AIRANTISUBRON 38; to NAS ALAMEDA.
Norman, James H. CO NAVRESTC TOMPKINSVILLE STATEN ISLAND; to USS GENERAL G M RANDALL.
Pullen, Boyd M. Jr. 6ND TEM; to 6ND.

PL 810 Retirements

The Army has issued orders which place the following National Guard and Reserve officers and noncommissioned officers on the PL 810 retirement list. To qualify, an officer must have at least 20 years' creditable service and have attained the age of 60.

Brigadier General

Jahnsen, Oscar J

Colonel

Cohen, William R. Ryder, Edward A
Dunham, Fred A. Wilson, Lester R
Loos, Aldo H

Lieutenant Colonel

Arnold, John W. Miller, Paul R
Biebesheimer, Edw F. Nichols, Clarence E
Collins, Lloyd E. Riegel, Leo A
Hutchins, Bentley S. Trotter, Clarence E
Lebron, Lamar C. Winfree, Robert N

Major

Mohan, Frank P. Talsey, William C

First Lieutenant

Strash, Victor C

M/Sergeant

Birkholz, Elmer F. Swanson, Stanley V
Miller, Commodore L

Marine Orders

From page 6—

Blumenkrantz, Richard A. MCS, Quant, to MAD NABTC Pncla.
Sheppard, Michael J. MCS, Quant, to For Trps FMFLant.

To 1st Mar Div

From MCB Cp Pen:

Beckwith, William H. Kitchens, Joseph A. Jr
Bosworth, Gerald G. Mulkey, Jesse G
Cooper, Bernard K. Olson, Reid H
Deegan, Gene A. Robinson, Donald M
Gorrell, Walter T. Warren, Frederick L
Hanson, Richard A. Williams, Laurence T
Herbert, Joseph F. Woodward, Robert L
Holt, Newell L

To 2d MarDiv

From MCB, Cp Lejeune:

Bucknam, Howard V. Swing, Robert J
Cummins, Daniel J. Young, Kenneth C
Cushman, Allerton, Jr. Thornton, Gerald T
Harp, George L

To 3d Mar Div

Mowbray, Robert N. Pncla.

41 Retired Officers Are Postmasters

Forty-one postmasters in the U. S. are retired officers, according to a survey made by Capt. George H. Huban, USA-Ret., Secretary-Treasurer of the Green Mountain Chapter of the Retired Association, and Postmaster at Middlebury, Vt.

The survey was made through the medium of *Postmaster's Gazette*, magazine of the National Association of Postmasters of the United States.

The list includes: Lawrence A. Floro, Lt. Col., USA, Smithton, Pa.; Edward B. Maguire, 1st Lt., USAR, Wynnewood, Pa.; John L. Brigham, CPO, USN, Boylston Center, Mass.; Harriet H. Tuttle, 1st Lt., USAR, Comstock, Mich.; Edward J. Spear, Capt., USNR, Southport, Conn.; Walter A. Lamml, Capt., USA, Stanton, Neb.; Henry C. Pendergraft, Lt., USNR, Mason City, Iowa; Joseph A. Manzione, Maj., USAR, Beaver, Utah; Henry E. Roper, Col., USAR, Bernie, Mo.; John F. McCann, Maj., AUS, Oglesby, Ill.

Also, Maxwell E. Lee, 1st Lt., AUS, Danville, Ind.; Martin L. Pearsall, Capt., USA, Coney, Kans.; Earl F. Miner, Lt. Col., AUS, Brookings, S. Dak.; Charles C. Herrick, Col., AUS, Oakland, Calif.; William R. Clark, Maj., USAR, Loysville, Pa.; John B. Hupp, Lt. Col., New Castle, Ind.; Richard Z. Dolgopel, 1st Lt., AUS, Wheeling, Ill.; Irwin Knudson, Maj., USAF, Newark, Ill.; James S. Aynsley, CWO, AUS, Clallam, Wash.; Joseph A. Grabill, Capt., AUS, Boulder Creek, Calif.; Oral J. Brown, Lt. Col., USAF, Washington, Iowa; Theodore E. Murphy, Lt. Col., USAR, Dinuba, Calif.; William K. Sadler, Maj., Lutz, Fla.; Robert J. Quinlivan, 1st Lt., AUS, Idalou, Tex.; Abe W. Fox, Maj., AUS, Larned, Kans.; Frank W. Powell, Capt., USA, Danville, Ky.; George H. Huban, Middlebury, Vt.; Richard O. Mullen, 1st Lt., AUS, Athol, Mass.

Also, Earl L. Richardson, Maj., USAF, Lake Isabella, Calif.; John H. Brown, Lt. (jg), USN, Holland, Va.; S. G. Harrison, USAR, Tampa, Fla.; Leslie L. Evans, Brig. Gen., AUS, Canten, Miss.; Samuel S. Devall, Col., USA, Hallettsville, Tex.; Miles M. Davis, Capt., AUS, Paris, Ky.; Reginald E. Snapp, 2d Lt., AUS, Belleville, Kans.; Robert F. Pierce, Col., USAR, Lyndonville, Vt.; Emmett A. Raney, Capt., USAF, Freeman, Va.; Harry F. McLaughlin, Maj., USAR, Carrollton, Ohio, and Emery Woodall, 1st Lt., AUS, Hamilton, Va.

From MCS, Quant:

Kershner, Jerry L. Theer, Richard E
Rhoda, Donald C

To 3d MAW

From Beeville, Tex:

Clark, Walter F. Jr. Vest, David G
Trant, William M

WARRANT OFFICER

Main, Stanley W. 3d Mar Div, to ForTrps FMFLant.

RETIRED

Harshberger, Col John D.
Hutchinson, Col Edward L.
Sanders, Col Claude S. Jr.
Enright, Col William K.
Ford, Lt Col George H.
Whitney, Lt Col Boyd O.
Hunt, Lt Col Leroy P. Jr.
Coyle, Maj Richard J.
Williams, Capt Carl D.
Davenport, CWO-2 Jerry R.

Retired Notes

Lt. Gen. Idwal H. Edwards, USAF-Ret., President of the Retired Officers Association, visited the New Mexico Chapter recently to discuss employment opportunities and legislative trends with chapter members. President of the Chapter, located in Albuquerque, is Lt. Col. Dorsey H. Cullen, AUS-Ret.

Lt. Col. Karl F. Wihtol, AUS-Ret., gentleman farmer with 41 acres on Red Hill Rd., Middletown, N. J., is the head of Wihtol Industries, Eatontown, N. J., which manufactures industrial and laboratory equipment. He is President of the Eatontown Chamber of Commerce, serving his seventh term of office. Colonel Wihtol is also a charter member of the Eatontown Rotary Club (International) and a member of the First Corps of Cadets Veterans Association, Boston, Mass., and other civic organizations.

RAdm. John B. Bergen, USNR, received from Secretary William B. Franke a personal letter of appreciation for his contributions to the Nation and Navy upon his retirement from the Reserve; a former National President of the Navy League, he had received earlier the Navy's Distinguished Public Service Award.

Lt. Col. Allen R. Moore, AUS-Ret., 1550 Bayshore Dr., Dunedin, Fla., is Commander of Dunedin Flotilla #710, U. S. Coast Guard Auxiliary, which he helped organize in June 1958.

Lt. Col. Frederick A. Palmer, USA-Ret., has joined the Delco Corporation, a division of General Motors in Rochester, N. Y. He and Mrs. Palmer, the former June Dunham, of Baldwinville, N. Y., and their three children, Patricia 15, Frederick, Jr., 13 and Timothy, 9, will live at 430 Fetzner Road, Rochester.

Lt. Col. Charles L. Treadway, USA-Ret., 301 8th Ave., No., Nashville, Tenn., is employed in the Security Section of the Federal Reserve Bank there.

Col. T. I. Edgar, USA-Ret., 19 West-side Court, Lexington, Va., is instructing mathematics at the Virginia Military Institute.

Three Colonels Retire At S.F. Presidio Retreat

Col. John G. Folkes, Sixth Army Inspector General, Col. Robert L. Lancefield, USMA '30, and Col. William B. Fraser, USMA '32, were honored at a retreat parade and retirement ceremony 25 September at the Presidio of San Francisco.

Colonel Folkes, who was graduated from Virginia Military Institute in 1926 with a degree in Engineering, also has a law degree from the University of Richmond. He and Mrs. Folkes will travel to Japan and other areas in the Far East.

Colonel Lancefield, Staff Judge Advocate, Pacific Transportation Terminal Command, will join a law firm and take up residence in Los Angeles at 1422 Midvale Avenue.

Colonel Fraser lives at 110 Stanyan Street, San Francisco.

Also retiring at the Presidio were: Lt. Col. Carl E. Jacobsen of Plans and Operations, Sixth Army, who resides at 731 Montecillo Road, San Rafael; Maj. Russell G. McIntzer, 2252 E. Florence Drive, Tucson, Arizona; and CWO Walter J. Moss, 15721 Lorella Avenue, Los Angeles.

Green Mountain Chapter Meets

The annual meeting of the Green Mountain Chapter of the Retired Officers Association will be held 8 November at the Officers Open Mess, Ethan Allen AFB, Winnsboro, Vt., according to Col. Lincoln F. Daniels, President. The chapter includes in its membership officers residing in Vermont, Northeastern New York and New Hampshire.

M/G Dolph Retires

Maj. Gen. Cyrus A. Dolph, 3d, recently Deputy CofS Training MAAG, Vietnam, retired 30 September after more than 26 years active service.

HONOR GEN. GRUENTHER

General Alfred M. Gruenther, USA-Ret., president of the American Red Cross, has been selected as recipient of the Cardinal Gibbons Medal as one who has "rendered distinguished service to the United States, the Catholic Church, or the Catholic University of America."

The award will be presented to General Gruenther at a banquet to be held 4 November.

Maj. Frederick N. Tyson, USA-Ret., is residing at 1706 Lake St., Durham, N. C.

Capt. Edgar L. Henson, USA-Ret., a Registered Professional Engineer, is doing research in soils engineering, uses of crushed stone and bituminous pavements. Captain Henson, whose address is Box 146, Decatur, Ala., is a lay reader in the Episcopal Church; Past President and now Director in Morgan County, Ala.; Chapter of American Heart Association; a Trustee in the Alabama Heart Association, and a Member of the Civitan Club.

1st Lt. Charles W. Upchurch, Jr., USA-Ret., 2122 Norton Rd., Charlotte, N. C., is Mecklenburg County sales representative for Interstate Securities. He is active in the Myers Park Presbyterian Church and The Piedmont Club, Charlotte.

Lt. Col. Calvin Price, Jr., CE, USA-Ret., who is living at 336 La Hacienda Drive, Indian Rocks Beach, Fla., is engaged in the Real Estate business there.

Col. Samuel J. Adams, USA-Ret., is residing at Amado Nervo 768, Sector Hidalgo, Guadalajara, Jalisco, Mexico.

Capt. C. H. Newell, who retired from the Army in 1936, is now living at the King Edward Hotel in Jackson, Miss.

2nd Lt. Robert E. Tyler, USA-Ret., is Director of Men's Housing and Married Housing at the University of Alabama; Area Coordinator of Phi Delta Kappa, professional fraternity for men in education, and member of the Association of College and University Housing Officers. He is also a member of Alabama Guidance Association.

Col. A. R. Glafka, USA-Ret., former Continental Army Command Quartermaster, is the new Dean of the Munich, Germany, Branch of the University of Maryland, APO 407, New York. Since retirement last March, Colonel and Mrs. Glafka have travelled extensively in the U. S. and Far East.

Retired Officers of Virginia will meet at Ft. Lee, Va., 30 October. The meeting, to be held at the Officers' Club, will have speakers discussing subjects of interest to retired officers. There will be a special luncheon following which visits to points of interest at Ft. Lee will be made.

Retired officers of the seven uniformed services are invited to attend.

For further information write Col. Vincent Huller, Q.M.C., Headquarters Commandant, Ft. Lee, Va., or Col. William Hones, USA, Retired, Diggs, Mathews Co., Va.

Col. and Mrs. Sevier R. Tupper, who have made their home at North, Mathews County, Virginia, since his retirement in 1953, have sold their home and will move to Clearwater, Fla. Colonel Tupper commanded an Infantry regiment in the 87th Infantry Division during World War II.

Mrs. Helen L. Rice, whose service with the Navy's Bureau of Yards and Docks is the longest of any BuDocks employees, has retired. She joined the Federal Government 42 years ago when she enlisted in the Yeomanettes on 27 May, 1917. In December of that year she was assigned to the Bureau of Yards and Docks and has been there ever since. She resides at 3522 Quesada St., N. W., Washington, D. C.

Four Retired Generals Meet New Commander



GREETING the new Fourth Army Commander, Lt. Gen. Edward T. Williams, at a recent Ft. Sam Houston, Tex., reception were four famed Army generals now on the retired list. Left to right are General Walter Krueger, General Courtney H. Hodges, General Williams, General William H. Simpson, and General Henry I. Hodes.

Army Shows Its Newest Weapons To AOA; Says Cost Blocks Delivery To Troops

ABERDEEN PROVING GROUND, MD.

THE Army, in cooperation with the American Ordnance Association, displayed its latest shopping list here 8 October.

But Army Secretary Wilber M. Brucker said the Army will need more money to get this equipment into the hands of combat troops quickly.

Two major items which will receive top priority for acceleration if the Army gets more money are the Hawk surface-to-air missile and the M-60 tank, according to Secretary Brucker and Chief of Staff General Lyman L. Lemnitzer.

Although these items are already in the procurement program, Mr. Brucker said, it is now a question of the rate the Army gets the money to put them in the hands of troops.

Other items on the shopping list, many of which were displayed at the AOA's 41st annual meeting for the first time, are listed below. Asterisks are used to denote those items which received their first public showing at this meeting.

Missiles

Hawk—A surface-to-air missile designed to defend against enemy attackers flying at low altitude to escape detection. It uses solid-fuel propellant and is air-transportable.

Nike-Hercules—The features of this missile include an extended range, a solid propellant motor, and an extremely effective warhead. This missile will be a replacement for the Nike-Ajax at some sites and is scheduled for the tactical anti-aircraft defense of some of our larger cities.

LaCrosse—A solid propellant, surface-to-surface, fin-stabilized artillery type guided missile used for close support of ground troops. This missile is fired from a specially designed mobile launcher and can be guided to its target with deadly accuracy.

Corporal—A surface-to-surface missile. Range is considerably greater than conventional artillery. Propulsion by means of liquid propellant rocket motor.

Redstone—A surface-to-surface missile developed for use by field artillery. It is the largest surface-to-surface ballistic guided missile operational in the western alliance.

Sergeant—A surface-to-surface missile that will replace the Corporal incorporating improvements in power, range, and reliability. Highly mobile, it can be replaced quickly and fired by a small crew under all conditions of weather and terrain.

Small Arms and Aircraft Weapons

Rifle, 7.62-MM, M14—This rifle was developed to meet the requirements for a lightweight weapon capable of delivering semiautomatic and automatic fire.

Gun, Machine, General Purpose, 7.62-MM, M60—This lightweight weapon was developed as a replacement for caliber .30 machine guns.

Test Procedures Used In Development—These weapons are subjected to a functioning test under simulated adverse conditions of rain, mud, and dust. All experimental shoulder weapons are tested under these conditions prior to consideration for standardization.

***Gun, Machine, 7.62-MM, M73**—A machine gun with a shortened receiver and incorporation of other features desirable for use in tanks.

***Gun, Machine, Caliber .50, M85**—A machine gun with a dual rate of fire, especially designed for use in tanks and other combat vehicles.

F-86 Aircraft Nose, Caliber .50—This installation is employed as a facility for testing aircraft weapons; it consists of a nose section of an F-86 Sabre-Jet aircraft, mounting six caliber .50 machine guns, as one type of F-86 did in the Korean War. Each of these guns individually has a rate of fire of about 1,200 rounds per minute; with six of these guns, the Sabre-Jet fires more than 7,000 rounds per minute.

Gun, Automatic, 20-MM, M39—This is a revolver type 20-mm aircraft gun adapted to high velocity ammunition for use in fighter aircraft.

Gun, Multi-Barrel, 20-MM, M61—This aircraft weapon fires a high-velocity cartridge at a rate of 6,000 rounds per minute with no relative increase in barrel erosion effects. This design greatly increases the ratio of rounds fired per unit weight of gun.

Gatling Gun—This is a 1903 model of the Gatling gun, which was designed in 1861 by Dr. R. J. Gatling and patented

in 1862. The first model of this gun was adopted by the Army in 1866.

Mortars

81-MM Mortar, T227E2—This mortar was designed to reduce the weight of the three major components of the system to no more than 25 pounds each, while maintaining the same ballistic characteristics as the M29 Mortar.

***4.2" Mortar, T201**—This mortar was designed to reduce the weight, simplify, and increase the performance as compared to the standard M30 Mortar. A system weight reduction of approximately 140 pounds was obtained.

Recoilless Rifle

***90-MM "MAW" Rifle, M67**—This rifle is the Platoon Medium Antitank Weapon. It was designed to provide the Infantry soldier with a lightweight (approximately 33 pounds) shoulder-fired weapon which is intended to penetrate all existing armored vehicles at ranges and accuracies greater than those provided by the 3.5" Rocket Launcher.

Artillery

***105-MM Howitzer, M2A2E2**—This is an improved version of the work horse artillery weapon of the past. Its two important improvements are a higher angle of fire and longer effective firing range which will give it nearly the capability of the World War II 155-mm Howitzer.

***155-MM Howitzer, T258**—This weapon features the same types of improvements as the 105-mm Howitzer M2A2E2, outlined above. That is, it has a higher angle of fire and longer firing range with improved ammunition, having greater lethality.

***155-MM Mortar, XM70**—A close support artillery weapon system using the boosted rocket principle.

Self-Propelled Artillery

90-MM Gun, M56—A highly maneuverable and mobile self-propelled 90-mm gun, capable of being transported in either heavy assault gliders or cargo aircraft. Its light weight enables it to traverse muddy or marshy terrain, snow and sand, and permits it to be airdropped. Officially nicknamed "Scorpion," the vehicle is powered by an air-cooled 200-horsepower gasoline engine coupled to a cross-drive 150-4 transmission and carries a crew of four.

***105-MM SP Howitzer, T195**—An amphibious close-in artillery support vehicle with airborne capabilities. Light weight is achieved by all aluminum hull construction.

***155-MM SP Howitzer, T196**—This self-propelled howitzer features aluminum armor plate to reduce weight, large turret space, and the ability to swim. Utilizing the new longer range ammunition and with a new diesel engine, it has greater mobility and lethality than its predecessor.

8" SP Howitzer, T236—This mobile weapon is an unarmored, low silhouette vehicle, designed for use as general artillery and for close-in support to armored columns. Weighing 27 tons, it is air-transportable and represents the new family of heavy assault weapons soon to be put into service.

Transport Vehicles

Truck, Utility, ¼-Ton, 4 x 4, M151—This is a newly developed lightweight Jeep, incorporating a unitized body-frame

structure and independent wheel suspension. Reduction in weight over the standard Jeep makes it more adaptable to air-drop operations.

Truck, ¾-Ton, 6 x 6, XM408—This is an experimental vehicle using the same major components as the Truck, Utility, ¼-ton, M151.

Truck, 1-Ton, 8 x 8, XM384—The purpose is to provide an experimental vehicle of 8-wheel drive similar in design and utilizing to a high degree, components of the Truck, Utility, ¼-ton, 4 x 4, M151, and Truck, Utility, ¾-ton, 6 x 6, XM408. It is intended to study, test, and evaluate the vehicle's design, component arrangement, mobility, and general suitability for military operation.

Mechanical Mule, ½-Ton, 4 x 4, M274—The M274 is a lightweight, low silhouette vehicle featuring simplicity in design, operation, and maintenance. It is intended primarily for use in forward infantry battalion areas to transport crew-served weapons and ammunition. In many respects, it will assume the tasks previously performed by the army mule.

Truck, ¾-Ton, 4 x 4, XM443E1—The XM443 is an experimental dual-purpose vehicle, having the characteristics of both the Jeep and the Mechanical Mule. The seats can be folded out of the way to provide a flat surface for cargo. The suspension system provides excellent ride characteristics over rough terrain.

Truck, 2½-Ton, 6 x 6, M35E7 (Multi-Fuel)—Standard trucks modified to incorporate the LDS-427-1 multi-fuel engine and an automatic transmission (M35E8 only). The engine is designed to give diesel fuel economy with a multi-fuel capability for emergency conditions.

Truck, 2½-Ton, 8 x 8, XM410—This is the largest of a new family of tactical military general purpose type vehicles. It features unitized construction, which makes the vehicle floatable, and completely changes the design contour from that of a present-day truck.

Rockets

Launcher, Rocket, 4.5" Multiple—An aimed, solid propellant, surface-to-surface spin-stabilized rocket fired from the multiple launcher M21. High explosive and chemical heads are propelled to ranges of 9,100 yards in salvo of 25 with devastating effect.

Rocket, 318-MM, XM47 (Little John)—A large aimed rocket with range and destructive characteristics similar to those of very heavy artillery.

Rocket, 762-MM, M31 (Honest John)—A long-range free flight artillery rocket powered by solid propellant. It has atomic or conventional warhead capability and standard fire control techniques are employed.

Special Purpose Vehicles

Truck, Amphibious, 2½-Ton, 6 x 6, XM-147E2 (Superduck)—This vehicle is intended as a replacement for the diminishing stocks of the famed World War II DUKW's. Generally, its design follows that of its predecessor; the hull and marine equipment have been applied to a standard truck chassis. Significant improvements include increased payload capacity, higher water speed, greater cruising range, and automatic transmission, sealed brakes, a plastic cab, and an improved tire inflation system.

Recovery Vehicle, Medium, M88—An assault recovery vehicle weighing 54 tons, capable of towing the heaviest Army tank. Equipped with a 25-ton boom and a 50 ton winch, it can accomplish recovery on severely mired vehicles, and can also remove turrets and power packages from tanks in the field. Maximum speed for this vehicle is 30 mph. It carries a crew of six and can tow an M48 tank at speeds up to 25 mph.

Carrier, Personnel, Armored, M113—A vehicle designed to replace the Amored Personnel Carrier M59. Aluminum armor provides protection equivalent to that of the M59 and weighs approximately half as much. It is air-transportable, fully amphibious, and carries a complement of 13 men, or 1 more than the Armored Personnel Carrier M59.

Semitrailer, 25-ton, XM173E1—A conventional semitrailer converted to a powered-axle type for transporting tracked vehicles and cargo over highway and cross-country terrain. This arrangement demonstrates a practical method of substantially increasing the off-road mobility of tractor-semitrailer combinations.

Truck, Tractor, 15-ton, 8 x 8, XM191E4 (w/Semitrailer, 60-Ton, XM160)—This four-axle all-wheel drive tractor-truck is powered by the Ordnance 810 horsepower tank engine. The semitrailer has a 60-ton capacity for transporting medium and heavy tanks and other heavy equipment.

Tank Firing

Tank, 76-MM Gun, M41—The current standard light gun tank, which was produced in large quantities, is characterized by formidable firepower, high speed, and excellent mobility endowing it with the basic qualities required for light combat and reconnaissance.

Tank, 105-MM Gun, M60—Designated as the Main Battle Tank, it is designed to supersede the 90-mm Gun Tank M48A2. It incorporates the AVDS-1790-2 compression ignition engine developing 750 horsepower, dry type air cleaners, and a 105-mm gun. Hull and turret castings represent an improved design; suspension system has been simplified through elimination of shock absorbers and bump stops.

Tank, 120-MM Gun, M103—A heavily armored tank of the 60-ton class with a high velocity 120-mm gun, this vehicle was developed and produced during 1951-1953. The vehicle utilizes the basic power package and other miscellaneous suspension components common to the early production M48 tanks.

Tank, 90-MM Gun, M48A2 (w/XM16 Computer)—This tank is in the 50-ton class and mounts the T139 (M41) gun like the M48 and M48A1. The M48A2 differs principally from these vehicles in that it utilizes the AVI-1790-9 fuel injection engine with unit oil cooling, the CD-850-5 transmission, an increase in fuel capacity, IR suppression hood, improved driver's controls, Cadillac Gage turret control systems, and stronger suspension.

Tank, 90-MM Gun, M48A1 (w/Stabilizer)—An unconventional gun control system distinguishes this experimental tank. Stabilization for the main gun in elevation and the turret in traverse is designed to permit accurate fire from the moving vehicle in lieu of the present "fire and move" technique.

Tracks For 21 In S.O. 199

The following first lieutenants have been promoted to temporary captain in Army Special Orders 199, with rank from 8 October.

Those promoted extend through sequence number 2690.

They are:

Breeding, W B, SigC	Mitchell, A, Inf
Catudal, Jos U, Inf	Porteous, W L, Jr, Inf
Cherry, Jeff F, Jr, Inf	Pursell, A B, Arm
Clark, D O, Arty	Rice, Thomas A, Arty
Connell, T E, TC	Rodgers, S McQ, SigC
Cragun, B M, QMC	Slesnick, B W, Inf
Ellis, Wm T, MPC	Stevens, F G, Arty
Gassaway, K C, SigC	Thrall, D O, TC
Gilmore, E R, MPC	Volkmer, W A, SigC
Kennedy, R E, SigC	Watts, Wm E, OrdC
Marthens, P G, MPC	

Warrants Go Up In S.O. 200

Nine Army warrant officers were promoted to temporary W-3 in Special Orders No. 200.

Those promoted include warrants though sequence number 724, DA Circular 624-54, 2 June 1959. All will rank from 9 October 1959.

They are:

Barnwell, Wm H, Sr, AGC	Gurney, F A, TC
Blanchard, B O, OrdC	Maltz, Herbert L, Al
Burk, W C, OrdC	Riddick, W E, QMC
Chrisman, W D, QMC	Smith, D F, SigC
	Vaughan, E P, Jr, AGC

Maj. Wells Heads Lee Bn.

Maj. John A. Wells has assumed command of the 63rd QM Battalion at Ft. Lee, Va. He relieved Lt. Col. Paul L. McCrillis, assigned to Hawaii. Major and Mrs. Wells have one son, Timothy.

Hydro-Skimmer Gets Basin Tests

DAVID TAYLOR, MODEL BASIN, CARDEROCK, MD.

Leathernecks of the future never will get their feet wet while engaged in beach assaults if an experimental Hydro-Skimmer under test here proves feasible. Described by Basin Officials as "a completely new approach" to increasing the speed of Naval vessels, the Hydro-Skimmer is designed to "hover" or "fly" above the surface of the water.

An experimental model is undergoing tests in the Basin's Circulating Water Channel to determine the amount of power needed to sustain such a vehicle in a hovering attitude.

The small model has three parallel, elongated keels that keep it stable, while the hull rises out of the water on a cushion of air.

Basin officials point out that the tests are just getting underway and that the vehicle is "futuristic" in concept and can not be expected to be available in the near future.

In later tests of the home-made model, the Hydro-Skimmer will be mounted on a towing carriage for horsepower and motion studies. Behavior of the model in waves is the most important "unknown" to be investigated.

As envisioned by Basin scientists, a full-scale Hydro-Skimmer craft could speed combat-ready Marines over the water to landing points, and roll them up onto the beach on wheels or tracks located in the craft's longitudinal keels.

Another possible use for the experimental "flying" vessel is as a high-speed anti-submarine craft operating from a mother ship.

The Hydro-Skimmer's lifting force is provided by compressed air jets at the bow and stern acting downward against the water.

The "futuristic" Hydro-Skimmer is not to be confused with the nearer-at-hand Hydro-Foil craft. In this concept—tests are underway at the Basin's 3,000-foot long towing basin—a regular displacement-type boat is made to rise out of the water on a pair of submerged, wing-like hydrofoils as the craft picks up speed. At high speeds, the boat's hull is completely lifted out of the water and supported by the hydrofoils which are equipped with screws.

This idea is so far advanced that the Navy is asking for authority to construct a 115-ton vessel, known as the PCH (Patrol Craft, Hydrofoil) in this year's budget.

RADM. Ralph K. James, Chief of the Bureau of Ships, said that he expects delivery of the PCH in about 25 to 28 months. The Admiral told reporters that he anticipated the PCH to operate at speeds of 45 knots. He said that the craft will be used as a high-speed submarine detector—would have a range of about 2,000 miles if running on its hull and about 500 miles if operating on its "flying wings."

The current tests are being conducted to evaluate the stability of the hydrofoil strut system. Forces on the strut-propeller system are being measured by scientists as the model vessel proceeds through the basin at varying speeds and depths. In addition, various angles of the flaps on the elevators are being recorded to determine the best possible angles for specific speeds.

These exhaustive tests are providing information needed to design an autopilot for the craft.

No Travel Pay For Court Action

Overseas commands may not pay the travel expenses of their members when they are summoned to appear as defendants in foreign courts or are called for other procedures in connection with criminal prosecutions against them.

Such payments, says Comptroller General Joseph Campbell, in Decision B-140669, are not authorized by law. The Comptroller concedes, however, that it is quite often proper to pay the expenses of Servicemen serving as witnesses at foreign trials.

Discuss Reserve Forces



MAJ. GEN. C. Stanton Babcock, right, new CG of the VIII U. S. Army Corps (Reserve), Austin, Tex., welcomes Maj. Gen. J. W. Bowen, Assistant CofS for Reserve Components, Department of the Army, on his first visit to Corps headquarters. General Bowen also visited the University of Texas where he inspected the Army ROTC Unit and met with University officials.

Naval Reserve Units Win '59 Trophies

Winners of the annual major Naval Air Reserve trophies for the 1959 fiscal year have been announced.

Conway Trophy

Naval Air Reserve Training Unit, Anacostia, D. C., won the Edwin Francis Conway Trophy, given to the most efficient unit in the 18-station Naval Air Reserve Training Command.

Anacostia beat out Naval Air Station, Minneapolis, winner of the award for the past two years, by a narrow margin.

Capt. James A. Masterson, USN, was commanding officer at Anacostia during fiscal 1959. Present commanding officer of the station is Capt. Robert C. Lefever, USN.

RADM. Allen Smith, jr., USN, is Chief of Naval Air Reserve Training, with headquarters at the Naval Air Station, Glenview, Illinois.

The Conway trophy, one of the oldest continuous awards for aviation achievement, was donated anonymously to the Navy Department 23 years ago to perpetuate the memory of Lt. Edwin Francis Conway, commanding officer of Floyd Bennett Field, New York, who was killed in an airplane crash in 1933.

Jacksonville A Winner

Another trophy, the Chief of Naval Air Training Trophy, awarded to the unit showing the most improvement during the past fiscal year, went to Naval Air Reserve Training Unit, Jacksonville, Fla. Naval Air Reserve Training Unit, Anacostia, held this Trophy last year. VADM. Robert Goldthwaite, USN, Chief of Naval Air Training will present the trophy to the Jacksonville unit on 17 October.

Eleven individual squadrons of the air reserve command were picked as winners of Noel Davis trophies, emblematic of the most efficient reserve unit within several categories of training missions.

Noel Davis Awards

Noel Davis awards were first presented in 1927 by Harry Guggenheim, a former Naval Reserve aviator, in memory of Lieutenant Cdr. Noel Davis, USNR, who was killed in an attempted trans-Atlantic flight.

The 1959 Noel Davis winners in each squadron type and their commanding officers are: Fighter Squadron 791, NARTU, Memphis, Tenn.—Cdr. R. N. Pitner; Attack Squadron 672, NAS, Atlanta Ga.—Cdr. J. A. Brakefield; Antisubmarine Squadron 751, NARTU, Lakehurst, N. J.—Cdr. J. H. McGuinness; Patrol Squadron 742, NARTU, Jacksonville, Fla.—Cdr. F. D. Murphy; Transport Squadron 872, NAS, Oakland, Calif.—Cdr. G. H. Hubert, jr.; Helicopter Squadron 811, NAS, Minneapolis—LCdr. D. L. Djerf; Airship Squadron 753, NARTU, Lakehurst, N. J.—Cdr. E. L. Mahl; Fleet Air Service Squadron 815, NAS, Minneapolis—Cdr. C. O. Olson; Air Wing Staff 81, NAS, Minneapolis—Cdr. N. R. Rafshol; Air Training Unit 774, NAS, Los Alamitos, Calif.—Cdr. W. P. Sloan; Bureau of Aeronautics Representative Training Unit 721, NAS, Glenview, Ill.—Cdr. R. W. Rawson.

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5 Get Collier Trophy For Lockheed F-104

The Lockheed F-104 Starfighter, known as "the missile with the man in it," has won for its three designers and two Air Force record breakers this year's Collier Trophy.

The coveted American aviation award has gone to the U. S. Air Force and the industry team responsible for the F-104 interceptor: Clarence L. Johnson of Lockheed Aircraft Corporation for design of the air frame; Neil Burgess and Gerhard Neumann of the Flight Propulsion Division, General Electric Company, for development of its J-79 turbojet engine; Lt. Col. Howard C. Johnson, U. S. A. F., for establishing a world land-plane altitude record of 91,243 feet; and Maj. Walter W. Irwin, U. S. A. F., for establishing a world straightaway speed record of 1,404.09 miles per hour.

The Collier Trophy, established in 1911, awarded annually by the National Aeronautic Association and sponsored by LOOK Magazine in awarded for the greatest achievement in aviation in America, the value of which has been demonstrated in actual use during the preceding year. A picture story on the award is published in the current issue of LOOK.

Selection of the Collier Trophy winners is made by a committee appointed by N. A. A. president Thomas G. Lanphier, jr., which this year was composed of:

Miss Jacqueline Cochran, Federation Aeronautique Internationale president; General Orval R. Cook, USAF-(Ret.) of Aerospace Industries Assoc.; Frederick C. Crawford, Thompson Ramo Wooldridge, Inc., director; General James H. Doolittle, USAF-(Ret.), of Space Technology Laboratories, Inc.; Donald W. Douglas, Jr., Douglas Aircraft Co. president.

Also, Roger C. Fleming, General Motor's Allison Division public relations director; Robert B. Hotz, Aviation Week editor; Dr. Jerome Hunsaker of M. I. T.; S. Paul Johnston, Institute of Aeronautical Sciences director; Thomas G. Lanphier, Jr., National Aeronautic Association president; Dr. Randolph Lovelace II, of the Lovelace Foundation; Brig. Gen. W. W. Millikan, USANG, Aero Club of Washington president.

Also, J. B. Montgomery, General Electric's Aircraft Gas Turbine Division general manager; Wayne W. Parrish, American Aviation Publications editor and publisher; Edward G. Pipp, Aviation Writers Association president; VADM. R. B. Pirie, USN, DCNO; Peter Schenk, Air Force Association president; C. R. Smith, American Airlines president; General Carl A. Spaatz, USAF (Ret.).

Also, Stuart G. Tipton, Air Transport Assoc. of America president; Dr. John F. Victory, Assistant to the Administrator of National Aeronautics and Space Administration; T. F. Walkowicz, an associate of Laurance S. Rockefeller; Gen. Thomas D. White, USAF Chief of Staff; and Gill Rob Wilson, Flying Magazine editor and publisher.

LCdr. And Lieutenant Boards Scheduled

NAVY selection boards to pick active duty Line lieutenants and lieutenants (jg) for increased rank convene 20 and 27 October, respectively.

The board to consider officers for lieutenant commander excluding LDO's, will review the records of officers with dates of rank of 1 July 1956, and earlier. LDO's to be considered are those in or senior to the promotion zone which ends with Lt. Donald G. Scully, Lineal No. 36116-75 in the 1 January 1959 Navy Register.

The 27 October board, will consider the records of officers with dates of rank of 1 July 1958, and earlier. Only LDO's in or senior to the promotion zone will be eligible for consideration. The Line promotion zone terminates with Lt. (jg) Charles I. Shaw, Lineal No. 70331-00, while the LDO promotion zone ends with Lt. (jg) Gerald D. McCarthy, Lineal No. 70525-00.

Separate boards to consider Line WAVES for promotion meet on the same dates as boards for male officers. WAVE lieutenants having dates of rank of 1 July 1956, or earlier, are eligible, while the board to consider lieutenants (jg) will review the records of WAVES with dates of rank of 1 Jan. 1958, or earlier.

STRAC Claims First Three-Star Jumper

The Strategic Army Corps claimed two firsts this week as Lt. Gen. Robert F. Sink, XVIII Airborne Corps and Ft. Bragg Commander, jumped from a Fairchild C-123 transport 1,250 feet above that post's Sicily Drop Zone North.

This was the first jump ever made by an American Airborne Commander with three-star rank, according to the XVIII Corps Information Office. For General Sink, it was his first jump since receiving his third star 9 October.

As Commander of the XVIII Army Corps, General Sink heads STRAC, composed of the 82d and 101st Airborne Divisions and the 1st Infantry Division.

Brig. Gen. Joseph W. Stilwell, jr., Deputy Corps Commander and Chief of Staff, and Brig. Gen. William A. Harris, Corps Artillery Commander, jumped with General Sink 12 October.

Senior Enlisted WAVE Re-Ups; Shoots For 20

The Navy's senior active duty enlisted WAVE, Henrietta D. Leonard, YNC, court reporter for the San Diego, Calif., Receiving Station Legal Office, has signed up for another hitch.

Chief Yeoman Leonard has served 17 years in uniform and when she completes her new hitch she will become the first WAVE in history to retire on 20.

Navy PG School Grads Assigned

The 20 lieutenant commanders shown below are ordered from the Navy Postgraduate School, Monterey, Calif., to stations indicated:

Ambrose, Robert W, FtRon 92.
Nord, Clifford E, PhotRon 61.
O'Brien, Billie E, NavMissileFac Pt. Arguello, Lompoc, Calif.
Walker, John F, FAETUPac.
Best, Carl O, HatRon 123.
Carter, John T, jr, Oriskany.
Hawley, Bennie O, UNC/USFor Korea Seoul.
Marshall, Lee R, AEWRon 14.
Navarrette, Claude, jr, Bon Homme Richard.
Neiss, Norman J, USS Hornet.
Tuffanelli, George T, Ticonderoga.
Vangundy, Bryson, jr, HatRon 123.
Bouffard, Edward N, NAS MoffettFid.
Bryan, Paul E, jr, AirAntiSubRon 38.
Carpenter, Earl C, jr, PatRon 4.
Clampet, James V, NAS Whidbey Is.
Gillen, William V, ASO Phila.
Kluger, Raymond P, NavExamCen NTC GLakes.
Mears, Roy R, NavSta Rota.
Wilder, James H, CruDiv 5.

L/C Laws To Thailand

Lt. Col. Woodrow Laws, Commanding Officer, James W. Wadsworth U. S. Army Reserve Center, Rochester, N. Y., has departed for assignment as Infantry Advisor to the Thai Army at Bangkok.

Succeeding Colonel Laws as Commander of the Reserve Center will be Maj. Leo W. O'Leary, a native of Rochester.

SERVICE FAMILY NOTES

Family Editor
Louise B. McGiffert

Associate Family Editor
Bertie Johnson

AF Wives Meeting Attracts 600 Members

Six hundred members of the Air Force Officers' Wives' Club of Washington, D. C. attended the club's first get together for lunch and a style show 7 October staged by Julius Garfinckel and Co.

Honor guests were Mrs. Curtis E. LeMay, wife of the Vice Chief of Staff of the Air Force and Honorary Vice President of the Club; Mrs. James H. Douglas, wife of the Secretary of the Air Force; Mrs. Harold Talbott, widow of the former Secretary; Mrs. Dudley C. Sharp, wife of the Under Secretary; Mrs. Lyle S. Garlock, wife of the Assistant Secretary, and the wives of 21 foreign Air

Attaches.

The head table was decorated with small fashion figures and autumn colors done by Mrs. Richard B. Shaefer and her committee.

Club officers sitting at this table were Mesdames Jack N. Donohew, Program Chairman; Oliver N. Picher, Robert C. Ruegg, Willard W. Smith, Stanley R. Vosper, Charles P. Richman, Bert E. Humphries, James E. Davoli, Gustav A. Neuberger, Neill MacKay, John C. Good, Rex L. Brouillard, George Hewitt, Herman J. Hicks, John M. Hoffman, and Arthur E. Exon, President.

Hampton Roads Wives Install Officers



THE Hampton Roads, Va., Army Air Defense Wives Club has installed a new slate of officers. Left to right, are Mrs. William Lipscomb, Treasurer; Mrs. John B. Bond, Outgoing President; Mrs. Charles L. Ringgold, newly elected President, and Mrs. W. Aux, Honorary President.

Ft. Knox Provide Scholarships; Citizen Help

REPORTS from Ft. Knox, Ky., tell of civic effort that JOURNAL readers will find newsworthy.

The first concerns the Thrift Shop's earnings last year, which have provided scholarship help to four Ft. Knox High School students. Those receiving the awards were Susan Evans, daughter of Mr. A. B. Evans, Superintendent of the Gold Vault, \$1200; Beverly Dabney, daughter of M/Sgt. and Mrs. E. A. Dabney, \$1000 scholarship; Robert N. Parsons, son of Lt. Col. and Mrs. Norman W. Parsons, \$1000, and Betti Dockray, daughter of Sfc. and Mrs. James M. Dockray, \$1000.

The second item concerns a pet project of Ft. Knox's Commanding General and his wife, Maj. Gen. and Mrs. W. Paul Johnson, which has been named Operation Citizenship. This entails helping some 800 alien military personnel and their families to qualify for American citizenship, an opportunity heretofore unavailable at the post. Through the Women's Club, a questionnaire has been circulated asking the recipients such questions as "Do you speak a foreign language? Can you teach English, American History or Government? Can you help one or more individuals, who are enrolled in a class, with conversation? Would you baby-sit while parents receive instruction?"

Presidio Wives Will Celebrate Birthday

The 40th anniversary of the founding of the Woman's Club, Presidio of San Francisco, will be the occasion for a tea on 5 November, at the Officers Club there beginning at 2 p.m.

Honor guests will be the co-founders of the club, Mrs. William K. Jones and Mrs. Sue Merriman, and charter members living in the Bay Area. They include Mesdames James C. Hatie, George T. Perkins, William Chambers, Andrew D. Chaffin, Charles Berle and Charles K. Wing.

Also to be honored are Past Presidents, Mesdames Charles L. Sampson, Harold Galliett, Peter Lloyd, Frederick B. Butler, Lloyd C. Parsons, James R. N. Weaver, Brookner Brady, Joseph Stillwell and Charles G. Rau.

Mrs. Robert M. Cannon, wife of Lieutenant General Cannon, Sixth Army Commander, will welcome the guests.

Mrs. Cannon will be joined on the receiving line by Mrs. Edwin L. Johnson, wife of Brigadier General Johnson, USA-Ret., and Mrs. Avery Cochran, President of the Presidio Woman's Club.

Mrs. T. A. Seely, Tea Chairman, will be assisted by Mesdames Francis Fox, Riley Ennis, J. F. Crosby and Gerald Randall.

Following are members of the Tea Committee: Mesdames T. A. Seely, Riley Ennis, Milton B. Halsey, Robert Soule, Wayland Augur, F. L. Cole, Ralph Haines, Norman Schwien, J. F. Crosby, Robert J. Foster, L. T. Lathrop, B. A. Seeley, W. N. White, J. H. Whitely, Francis Fox, Gerald C. Randall, and B. D. Russell.

Honor Mrs. Williams

Ft. Sam Houston, Tex.—Mrs. Williams, wife of Lt. Gen. Edward T. Williams, new Fourth Army Commander, was Honor Guest of the Fourth Army Women's Club at their opening fall luncheon. Also attending as special guest was Mrs. Gard, wife of Maj. Gen. Robert G. Gard, Special assistant to the Fourth Army Commander.

Ladies of the G-4 Section, with Mrs. H. L. Bays, Chairman, were hostesses.

Free "House Hunting" Offered By Moving Group

North American Van Lines, Inc., of Fort Wayne, Ind., has completed arrangements which will provide a new free nation-wide "house-hunting" service for prospective customers.

James D. Edgett, President, said that under an exclusive contract signed by North American, world's largest moving organization, with Arms Institute Inc., nation-wide real estate group with headquarters in St. Louis, prospective customers of North American may shop "by catalogue" for a home in a new location prior to moving, and may also use the new free service to market the home being vacated.

Complete information will be provided on available homes in the new location, taking into account price, size and neighborhood as specified.

An up-to-the-minute brochure, "An Invitation to Family Happiness," containing clear photographs of individual rooms as well as exteriors of available homes, and detailed descriptions of every pertinent physical as well as psychological fact including price, and financing available, is sent directly to the moving prospect by a franchised representative of Arms Institute Inc. Neighborhood and area characteristics are described.

Service Folk

Lucy Ellen Ray has been selected as one of the 10,000 semi-finalists in the 1960 National Merit Scholarship Program. She was one of the high scorers on the National Merit Scholarship Qualifying test last spring. She will take scholastic aptitude tests of the College Entrance Examination Board in December. Lucy Ellen was admitted to the University of Minnesota this Fall. She is the daughter of Col. Frederic D. Ray, Professor of Military Science and Tactics at South Dakota State College, Brookings.

Lt. Col. Clifford A. Perham, AUS-Ret., 77 Lowther Road, Saxonville, Mass., is the father of the new Cadet Colonel in the ROTC at Northeastern University. Whitman Perham, 23, is a senior in Northeastern's College of Business Administration. The senior Perham, a veteran of 34 years service, retired recently from the Northeastern University ROTC instructional staff.

Lt. Col. Bernard J. Marazzini, USA-Ret., for the past four years Commanding Officer, Region I, 112th Counter Intelligence Corps Group, Fourth Army, Ft. Sam Houston, Tex., his wife, Mary Jane, and four children, Mary Beth, Karen Ann, Pamela Ann and Michael, will make their home at 1111 Olney Drive, San Antonio.

Service Wives Clubs

The Comptroller Wives Club will meet at noon, on Wednesday, 21 October at the Officers' Club at Ft. McNair, for its monthly luncheon; when Mrs. George H. Decker, wife of the Army Vice Chief of Staff, will be the honor guest.

Mrs. David W. Traub, chairman of the luncheon, will be assisted by the wives of the Budget Division of the Comptroller of the Army, the sponsors for the affair.

There will be an illustrated lecture on "Origin of Modern Art," by Dr. Raymond S. Stites, of the National Gallery of Art.

Members of the National War College Women's Club heard Lt. Col. John Powers of the National Aeronautics and Space Administration, speak on "Project Mercury" at the Club's second luncheon held at the Ft. McNair Officers' Club, 7 October.

With Mrs. Arleigh A. Burke, wife of the Chief of Naval Operations, as their honor guest, members heard the speaker tell of the seven young astronauts.

The luncheon was in charge of the Navy members of the Club, with Mrs. Charles R. Calhoun, wife of Capt. Charles R. Calhoun, USN, as Chairman.

The Wives Club of the Industrial College of the Armed Forces held its monthly luncheon 13 October at Ft. McNair, when

Honor Mrs. Decker



MRS. George H. Decker, wife of the Army Vice Chief of Staff, is shown at left with Mrs. David W. Traub, President of the Ft. Myer, Va., Women's Club. Mrs. Decker was an honor guest at the Club's October luncheon, together with Mrs. Lyman L. Lemnitzer, Honorary President and wife of the Army Chief of Staff.

the Commandant of the College, Lt. Gen. George W. Mundy, USAF, was the guest speaker. General Mundy's subject was "Your Husband and ICAF."

Welcomed on the occasion were Mrs. John M. Breit, wife of the Director of OSI; Mrs. L. J. Campbell, jr., whose husband was a former aide to General Mundy; and Mrs. Ralph J. White, wife of the former Commanding Officer of Barksdale AFB, La.

Newly appointed committee chairmen, are Mesdames T. W. Sills, Hospitality; C. D. Davis, Special Activities; J. T. Stewart, Publicity; R. A. Clarke, Luncheon; and John H. M. Smith, Decorations. Mrs. Davis has announced the following members heading the special activities of the organization: Mesdames R. D. Biggs, Bridge; C. S. Leidy, French Cooking; F. X. Carney, Interior Decorating; P. E. Payne, Self Improvement; R. A. Berman, Painting; H. H. Hunt, Foreign Languages; C. V. Alba, Dancing; E. J. Knoche, Bowling; and H. W. Martens, Golf.

The Naval Officers' Wives Club of Washington honored Mrs. William B. Franke, wife of the Secretary of the Navy; Mrs. Fred A. Bantz, whose husband is Under Secretary of the Navy; and wives of the Assistant Secretaries, Mrs. James H. Wakelin, jr., and Mrs. Richard Jackson at a "coffee" at the Army-Navy Country Club 7 October. Also, among the honorees were the wives of all former Navy Secretaries and Assistant Secretaries in the area.

Hostesses for the affair were the wives of officers of the Office of Naval Intelligence, Office of the Judge Advocate General and Office of Information.

Defense Atomic Support Agency wives will have their monthly luncheon meeting Thursday, 22 October, at the Army-Navy Country Club. The Sherry hour is from 12 to 12:30 p.m.

Hostesses are Mrs. Raymond W. Millican and Mrs. Ralph W. Swanson. Mrs. D. H. Williams should be contacted at South 5-1940 for regrets.

Pasadena Area Support Center, Calif.—The Officers' Wives' Club officers are Mesdames C. W. Craven, President; S. A. James 1st Vice-President; A. F. Ohrvall, 2d Vice-President; D. Morelocke, Treasurer; E. B. Krainik, Recording Secretary; and T. H. Taylor, Corresponding Secretary.

Service Weddings And Engagements

MISS Joan Sheila Brophy, daughter of Mr. and Mrs. Thomas D'Arcy Brophy of Pawling, N. Y., was married

10 October to Capt. Thomas Burdick Tyree, USA, son of Mr. and Mrs. Harold Burdick Tyree of Grosse Pointe Farms, Mich., in an afternoon ceremony at Christ Church, Quaker Hill, Pawling.

The bride, escorted by her father, had Mrs. John L. Cleveland, Jr., her sister, as matron of honor, and as her other attendants, Miss Mary C. Douglas, Mesdames Robert Pickett, Louis G. Fields, C. J. Nager, States D. Tompkins, and David M. Wakelee. Maj. A. B. Shattuck, 4th, was best man, and ushers were Maj. John H. Chitty, Jr., Messrs. William C. Buckner, Richard B. Gushee, Henry L. Newman, Jr., H. Kennedy Nickell, and John L. Cleveland, Jr.

Mrs. Tyree was graduated from the Emma Willard School, Troy, N. Y., and from Sweet Briar College in Virginia. Her husband was graduated from the Cranbrook School in Michigan and from the USMA. He has served in Germany and Korea and is presently assigned as Executive Officer of the Department of Foreign Languages at West Point.



Photo by B. Bachrach
Mrs. Tyree

D. C. Her fiancé, USMA '59, is now stationed at Ft. Benning, Ga.

GLEESON-ROBERTS — Mr. and Mrs. Raymond James Roberts of San Francisco, Calif., announce the engagement of their daughter, Roberta Anne, to 1st Lt. William Joseph Gleeson, USA, son of Mr. and Mrs. William F. Gleeson of Scotia, Schenectady, N. Y.

Miss Roberts attended the Convent of the Sacred Heart, San Francisco, and was graduated from the San Francisco College for Women. Her fiancé, a graduate of Christian Brothers Academy, Albany, N. Y., and Fordham University, is currently stationed at Ft. Sill, Okla.

BEARNS-MASSEY — Mr. and Mrs. Linton Reynolds Massey of Keswick, Va., have announced the engagement of their daughter, Frances Converse, to Lt. Stuyvesant Keith Bearns, USMC, son of Mr. and Mrs. Melville Henry Bearns, Jr., of Warrenton, Va.

Miss Massey studied at St. Anne's School, was graduated from St. Timothy's School in Maryland and attended Finch College. Her fiancé, a cum laude alumnus of the Kent School, was graduated magna cum laude from Yale University this year. He is currently stationed at Quantico, Va.

An April wedding is planned.

FISCHER-FORD — In an afternoon ceremony at the First Presbyterian Church, Oakdale, La., 10 October, Miss Sally Thornton Ford, daughter of

of R A D M. (USCG-Ret) and Mrs. Alexander Lawton Ford, Box 63, Elizabeth, La., became the bride of the minister of the church, the Reverend George Julius Fischer, Jr. The bridegroom is the son of Mr. and Mrs. Fischer, sr., of Metairie, La.

Attending the bride as maid of honor was Miss Mary Harris, and as bridesmaid, Miss Robbie Glynelle, while Miss Nancy Hudson was junior bridesmaid and little Miss Susan Gardner was flower girl. Mr. John W. Bolton was best man, Mr. John C. Wenzel, groomsmen, and Mr. Alexander L. Ford, 3d, junior groomsmen. Ushering were Mr. Floyd L. Stainback and Lt. J. Scott Ford, USAF, cousin of the bride.

Mrs. Fischer was graduated from Florida State University with a Bachelor of Music degree, and is a member of the Zeta Tau Alpha sorority. Her husband, a graduate of the New Orleans Academy, Southwestern at Memphis, Tenn., and the Presbyterian Seminary at Austin, Texas, is a member of the Kappa Alpha fraternity.

Following a Gulf Coast wedding trip, the couple will be at home at 121 11th St., Oakdale.

FEATHERSTON-LITTLE — Dr. and Mrs. Luther Little of Baltimore, Md., have announced the engagement of their daughter, Carol Lynn, to Mr. Edward Wilcox Featherston, son of Col. (USA-Ret) and Mrs. John Henry Featherston of Charlottesville, Va.

Miss Little, who is a graduate of the Bryn Mawr School, is a junior student at Vassar College. Mr. Featherston, who attended the USNA, is a student at the University of Virginia.

FISHER-HOWARD — Lt. Col. and Mrs. H. F. Howard of Heidelberg, Germany, have announced the engagement of their daughter, Marilyn Kathryn, to Mr. L. McLane Fisher, Jr., son of Mr. and Mrs. Fisher, sr., of Belhaven Farms, Cockeysville, Md.

HARMS-SALET — Col. and Mrs. Eugene A. Salet, now in Okinawa, have announced the engagement of their daughter, Suzette Taylor, to 2d Lt. John E. Harms, USMC, of Clearwater, Fla.

Miss Salet, who studied in Paris and Germany, is a graduate of the National Art Academy, Washington, D. C. Her father is now Executive Officer of the U. S. Civil Administration, Ryukus Islands. Lieutenant Harms is a graduate of Oglethorpe University.

A February wedding in Okinawa is planned.

MORRIS-BAUST — Mr. and Mrs. Herman A. Baust of North Haven, Conn., announce the marriage of their daughter, Laurel Joane, to Capt. Robert Franklin Morris at a double ring ceremony 3 October at the Cooke Barracks Chapel, Goeppingen, Germany. The Reverend and Mrs. Walter O. Morris of Ocean Lake, Ore., are parents of the bridegroom.

Miss Marilyn D. Johnson was maid of honor and Capt. Robert Lider was best man. Lts. Edward Hannibal, Manley Eubanks, Thomas Lloyd and Robert Powell ushered.

Following a wedding trip to Italy, the couple will reside at Goeppingen.

ROTH-BERQUIST — Maj. Gen. (USAF) and Mrs. Kenneth P. Berquist of Bedford, Mass., announce the engagement of their daughter, Linda Elizabeth, to 1st Lt. William Edward Roth, USAF, son of Maj. Gen. (USAF-Ret) and Mrs. Marshall S. Roth of 1344 Downer Pl., Aurora, Ill.

Miss Berquist was graduated last June from Colorado College, Colorado Springs, where she was a member of the Delta Gamma sorority. Lieutenant Roth, USMA '55, is stationed at Chanute AFB, Ill.

A December wedding at Colorado Springs is planned.

ANDERSON-PITTMAN — Col. (USA) and Mrs. Joseph Menzie Pittman of 4321 Wright Ave., Ft. Meade, Md., announce the engagement of their daughter, Mary Ains, to Lt. Frederick Douglas Anderson, USA, son of Dr. and Mrs. William Douglas Anderson of Claremore, Okla.

Miss Pittman, who prepared at schools in the U. S., Japan and Europe, was graduated from the American School in Salzburg, Austria, and from the Georgetown Visitation Junior College, Washington,



Photo by Kohara
Mrs. Fischer

They Lead Leavenworth Army Daughters



OFFICERS of the Ft. Leavenworth, Kans., Chapter, Daughters of the U. S. Army, for the 1959-1960 season, are, from left to right, Mrs. George B. Lundberg, Treasurer; Mrs. Roy L. Liles, Secretary; Mrs. Joseph E. O'Leary, Vice President, and Mrs. Frederick V. Harris, President. A feature event of the year will be a Mardi Gras to be held 6 February.

SAC Family Services Uniform Set For Use AF-Wide; Some Modifications

The blue uniform worn by Strategic Air Command Family Service Volunteers will be adopted for Air Force-wide use.

The uniform is a two piece Navy-blue suit, with the collar trimmed in white.

To adapt the uniform for general Air Force use, a year-around wash-and-wear fabric will be substituted for the linen fabric worn by SAC volunteers.

Another change will be a new "USAF Family Services Volunteer" patch in place of the family services patch over the

heart. The new patch will be detachable and made of a cloth material.

SAC's pin-emblem immediately above the "Family Services" patch will be replaced with a USAF pin, which has yet to be designed.

No decision has been made on whether the Air Force will retain the service bars, which are worn on the left sleeve of the SAC uniform.

Cost of the present SAC uniform is \$10.95. When adapted for Air Force-wide use, it is expected that the cost will be the same or less.

Following adoption of a standard uniform, Family Services officials in Washington expect to follow up with simplified and standardized methods of record keeping and uniform awards for all USAF Family Services Volunteers.

Mrs. Cox Directs Family Services At Pope

New Family Services Coordinator at Pope AFB, N. C., is Mrs. Sara Cox, wife of Col. James I. Cox, Deputy Commander, 464th Troop Carrier Wing. She succeeds Mrs. Connie McGlynn.

Committee chairmen who will serve for the next six months are: Emergency, Mrs. Peggy Bailer; Thrift Shop, Mrs. Margaret Angus; Publicity, Mrs. Carolyn Robinson; Welcoming, Mrs. Marie Ledbetter; Office, Mrs. Yvonne Emery, and Housing, Mrs. Virginia Orr.

Ft. Lewis Wives Aid Distaff Club

A check for \$1,500 has been sent by Mrs. Joseph E. Murray, President of the Ft. Lewis, Wash., Officers' Wives Club, to the Army Distaff Club.

The money was raised from a Dance Clinic and Charm Course.

Two new projects for the Distaff Club fund will begin in October. Mrs. Ed Strombeck, who lived all her life in Hawaii, and who has danced the hula since she was three years old, is donating her services to give a 10-lesson course in the hula to OWC members.

Mrs. Charles F. Schick, who is a professional ballet dancer from Europe, will have a ballet class for OWC members. Proceeds from both classes will go into the Army Distaff Club fund.

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Sec'y Brucker Promises He Will Resist Further Effort To Cut Army Manpower

(AOA Sees Weapons—Page 20)

ABERDEEN PROVING GROUND, MD.

SECRETARY Wilber M. Brucker has declared that the Army will resist new effort that would cut strength below the currently authorized 870,000 limit.

He also made it clear that the Army will seek increased appropriations to speed modernization.

Secretary Brucker's statements came only a short time after Assistant Defense Secretary Charles C. Finucane announced that the Air Force and Navy had "voluntarily" chosen to cut their manpower for fiscal '61 in order to live within budget limitations.

Mr. Brucker made his remarks at a news conference here following the American Ordnance Association's 41st annual meeting 8 October.

"In the 1961 budget," the Secretary

said, "we are hoping to get a large amount for the modernization of weapons. General Lemnitzer and I are pressing for that rather firmly."

In addition to this, he said, the Army has made a "very definite" request for a continuing strength of 870,000 men.

He reported that the Services had been advised that they should hold the line and stay within the same budget totals as this year.

For this year, FY '60, President Eisenhower asked Congress for \$8.985 billion in Army appropriations. Congress appropriated \$9.37 billion.

In making the Army's Fiscal '61 budget request, however, Secretary Brucker said that neither he nor Chief of Staff General Lyman L. Lemnitzer felt constrained to remain within the fiscal guidelines established by the Department of Defense.

'Copters Will Take On All-Weather Combat Role With New Sperry Navigation System

FORT RUCKER, ALA.

A LIGHT-WEIGHT navigation and flight instrument system to allow all-weather operation of Army fixed and rotary wing aircraft was unveiled here 14 October by the Army and Sperry Gyroscope Company.

Completely self-contained, the unit does not rely on ground based navigational aids, which normally would not be available in combat.

It can, however, make use of the ground aids.

Through the incorporation of advanced cockpit instrumentation concepts and new doppler radar techniques not previously combined in a single lightweight self-contained system, precise navigation will be possible without dependency on ground based radio transmitters.

A novel feature of the system is a nine-inch-square map display which provides pilots with a visual picture of the aircraft's position and progress.

Exact location of the plane and its heading or direction of flight are electronically indicated by a moving pointer against an aeronautical or grid map of the area.

A special movable-tape display—considered far superior to the conventional dial indicators—gives the pilot his rate of climb and altitude both for maintaining level cruising and for absolute measurement above the ground. A second display of this type provides groundspeed and airspeed data on a single indicator.

Although exact performance figures are classified, the system achieves accuracies better than those of presently employed radio navigational aids, Army officials said.

The completely integrated and transistorized system weighs 120 pounds or about half that of an assembly of conventional indicators and instruments which could perform duplicate functions. Conventional systems would also lack the accuracy and automatic capability of the new Sperry AN/APN-118, they pointed out.

Main subsystems in the new Army system are a lightweight doppler radar, radar altimeter, most accurate GyroSyn compass known and an advanced flight instrument display that includes an automatic navigator with an electronic memory to store and "remember" winds, groundspeed and other data.

Mrs. Biddle Named DACOWITS Chairman

Mrs. Anthony J. Drexel Biddle, Annville, Pa., has been named Chairman of the Defense Advisory Committee on Women in the Services (DACOWITS) for the year 1960, Assistant Secretary of Defense (Manpower, Personnel and Reserve) Charles Finucane announces. Mrs. Biddle will succeed Mrs. Neal Tourtellotte of Seattle, on 1 January 1960.

The 50-member Committee advises the Department of Defense on policies and standards affecting Women in the Services and conducts a public education program in behalf of all women in the Army, Navy, Marine Corps and Air Force.

Mrs. Biddle, wife of Maj. Gen. Anthony J. Drexel Biddle, USA, the Adjutant General for the Commonwealth of Pennsylvania, has a long record of public service. In Europe after the war she organized several groups to care for and assist the needy and destitute. An organization of American wives there which she established to further this work ultimately became the present "American Women's Activities in Europe" composed of women from the NATO countries.

Heads Communications

Cdr. Leonard H. Werner has succeeded Cdr. Jesse H. Radcliffe as Commanding Officer, U. S. Naval Communications Station, Newport, R. I.

Commander Radcliffe, who retired after 30 years service, will reside in Newport where he has accepted a teaching post with the Hatch School.

Army S.O. 202 Gives Silver Leaves To 21

The Army, in Special Orders No. 202, has promoted 21 majors to temporary lieutenant colonel, with date of rank from 13 October.

Those promoted include majors through sequence number 458, Army Promotion List, DA Circular 624-47, 9 March 1959.

They are:

Bunton, R B, CE	Merlo, Wm J, MPC
Cahill, Jas P, Armor	O'Neill, Brian B, CE
Carpenter, C P, Inf	Richards, R H, QMC
Dallam, Robt N, AGC	Sanders, Jas H, Inf
Golden, A J, Arty	Smith, C M, Arty
Goodwin, Wm R, Inf	Spinelli, Jos D, Inf
Grant, R T, Jr, QMC	Thompson, R W, TC
Haynes, C H, Inf	Tichenor, J F, Arty
Joyner, Walter R, AI	Ward, Richard H, Inf
Kasserman, H W, FC	Zobrist, Paul S, TC
Kneese, E A, Arty	

Capt. Fowler Heads Parris Is. Dental Unit

Capt. William M. Fowler, DC, reporting from Hawaii, where he was Force Dental Officer, FMF Pacific, has assumed duties as Dental Officer-in-Charge of the unit at Marine Corps Recruit Depot, Parris Island, S. C.

He succeeded Capt. R. W. Carlson, DC, who became the unit's Assistant Dental Officer.

Captain Fowler served in the Depot's Dental unit 23 years ago when he reported to his first duty station.

Will Test Armed 'Copters In Division

From first page—

use by Army Aviation, just as they will be used by other Army components.

The General said he did not foresee any difficulty in the matter of roles and missions as related to the arming of helicopters with nuclear weapons to meet Army requirements.

His statement is noteworthy in view of the fact that the Army, because of restrictions on its aviation, has been unable to arm fixed-wing aircraft with machine guns.

The Aviation Center is awaiting arrival here next week of the first de Havilland Caribou, which will be tested by the Army Aviation Board, under Col. Jack Marinelli.

Col. Delk M. Oden, Assistant Commandant of the Army Aviation School, answering a newsman's question, said that Caribou training likely will begin here in the Spring.

At present, the first group of Army pilots for the Caribou are being trained at the de Havilland plant in Canada.

(Next week's issue of The Journal will feature additional reports from the Aviation Center.)

Col. Brown Named DC Assistant Chief

Col. Pearson W. Brown is the new Assistant Chief of the Dental Division, Army Surgeon General's Office.

Maj. Gen. James M. Epperly is Chief of the Army Dental Corps.

Colonel Brown succeeds Col. Leland G. Meder, assigned to the Army Medical Service Combat Development Group at Walter Reed Army Medical Center, Washington, D. C.

Colonel Brown had been Director of the Department of Dental Science at the Army Medical Service School, Brooke Army Medical Center, Ft. Sam Houston, Texas.

The Colonel and his wife, Lucy, live at 3819 N. Dittmar Road, Arlington, Va. They have two children, Marcia, 16, who attends Washington & Lee High School; and David, 13, who attends Williamsburg Junior High School in Arlington.

Army Names 28 Majors In Special Orders 203

The Army, in Special Orders No. 203, has advanced 28 captains to major, effective 14 October.

Those promoted include captains through sequence number 426, D/A Circular 624-66, 14 September 1959. They are:

Achee, S W, Inf	Lawrence, G E, TC
Allbright, M C, Arty	Luttig, N W, TC
Bohnert, A E, SigC	MacKay, H O, SigC
Boyle, P J, Jr, Arty	Markovic, E J, CE
Brown, A J, Inf	McCarthy, J J, AGC
Callagy, T A, Inf	McKinsey, R A, Inf
Cox, N F, Arty	Miles, E J, QMC
Farrell, J F, Inf	Mitchell, R O, TC
Forbes, W A, Inf	Porta, J R, Arm
Harstad, LeR O, Arty	Reid, W G, TC
Hult, C E, SigC	Shell, C O, Jr, Arm
Irick, E F, Jr, Inf	Shriver, R B, Jr, Arty
Johnson, J R, Inf	Smith, H T, Arty
Kaczmarowski, J H, Inf	Washburn, G W, Jr, SigC

Col. Guerin Is Chosen Wright-Pat. Comptroller

Col. B. P. Guerin of Air Materiel Command Headquarters, is slated to be the new comptroller of Wright-Patterson AFB, Ohio.

Colonel Guerin has been Chief of the Operations and Systems Office of the Comptroller, AMC, where he has been assigned since July 1956. Prior to that he was a student at the Air War College, Maxwell AFB, Ala., from which he was graduated in June 1956. He also holds a Master of Business Administration degree from New York University.

Colonel Guerin will replace Col. William H. Matthews, scheduled for overseas assignment.

Col. Skinner Heads Brooke Hospital

Col. Robert B. Skinner has assumed command of Brooke Army Hospital, Ft. Sam Houston, Tex., after duty as Commander of Martin Army Hospital at Ft. Benning, Ga.

He has also commanded Tokyo Army Hospital, Japan, and the Army Hospital at Ft. Dix, N. J. He has been Deputy Commander at Walter Reed, Letterman and Tripler Army Hospitals.

He was Chief of the Communicable Disease Service at Gorgas Hospital, Panama and commander of the First Medical Regiment in 1940-41 in California.

In WWII, he served as Deputy Surgeon U.S. Army Ground Forces and, later, in Australia and New Guinea as Deputy Surgeon of the Army of the Pacific. He was Deputy Surgeon of both the Fourth and the Sixth Armies.



Col. Skinner

Medical Notes

Col. Max H. Watkins has joined the Medical Services Inspection Division of the USAF 1002d Inspector General Group at Norton AFB, Calif. He is an expert in medical administration and management and will be utilized to inspect the hospital organizations throughout the Air Force.

1st Lt. George F. Orthey, Jr., Ft. Sheridan, Ill., veterinarian, has received a Regular Army commission.

He is the son of Lt. Col. and Mrs. George F. Orthey, sr. (Ret), Lake Road, Newport, Vt.

Maj. Jack C. Fitzpatrick has been named Assistant to the Army Surgeon General's Special Assistant for Nuclear Energy in Washington, D. C. He replaces Lt. Col. G. M. McDonnell, who is retiring to accept a faculty position at the University of California in Los Angeles. Major Fitzpatrick had served as Assistant Chief, Department of Medicine, Brooke Army Hospital, and as Instructor in Nuclear Medicine, at the Army Medical Service School, Brooke Army Medical Center, Ft. Sam Houston, Texas.

The Major married the former Miss Mary Brown, a classmate at Southwestern Medical College and the daughter of Lt. Col. & Mrs. George B. Brown, USA-Ret., of 2017 Huntington Avenue, Oklahoma City, Oklahoma. The Fitzpatricks live with their 5-year-old son, John, at 1209 North Powhatan Street, Arlington, Va.

Capt. Harold J. Cokely, Commanding Officer of the Naval Hospital, Key West, Fla., has been ordered as Admiral Andrews' replacement in early November.

Capt. Merrill H. Goodwin is the new Assistant Chief of the Bureau of Medicine and Surgery for Aviation Medicine and Director, Aviation Medicine Operations Division following the retirement of Capt. Oran W. Chenault. Captain Goodwin has been Deputy Director of the Aviation Medicine Operations Division.

New Contract Awards

Radioplane Division of Northrop Aircraft, Van Nuys, Calif., has been awarded a \$1,847,707 contract for engineering changes on the SD-1 Drone system.

Burroughs Corporation, Detroit, won a \$1,965,645 award for classified research and development work which will be performed by the corporation's Research Center at Paoli, Pa.

Baltimore Contractors, Inc., Baltimore, Md., won a contract for \$1,972,625 for hospital construction at Glasgow AFB, Mont.

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New Research Tools At Model Basin Include Top Knot, High Mach Devices

DAVID TAYLOR MODEL BASIN,
CARDEROCK, MD.

A 13-inch wind tunnel and a \$12 million maneuvering and seakeeping facility are slated for completion here early next year.

The new research "tools" will enable Basin scientists to perform more detailed experiments leading to improved performance of aircraft and missiles and surface ships and submarines.

Capt. Carl R. Hirschberger is Acting Director of the Basin in the absence of RADM. Edward A. Wright, who is taking an advanced course at the Naval War College, Newport, R. I. Upon the Admiral's return, Captain Hirschberger resumes his post as Basin Industrial Officer.



Capt. Hirschberger

The maneuvering and seakeeping facility consists of two basins—a rotating arm basin and a seakeeping basin. The rotating arm basin is 260 feet in diameter and has an 8 million gallon capacity. The arm is capable of building up speeds of 50 knots in 1½ turns.

The seakeeping basin has a 12 million gallon capacity, is 240 feet wide, 360 feet long and 20 and 35 feet deep. Its carriage can test models at speeds up to 15 knots. Its wave making machinery can simulate all states of seas and create waves up to two feet high.

The \$1 million 13-inch hypersonic wind tunnel will be used to obtain aerodynamic data and to make heat transfer studies on models at Mach numbers ranging from 5 to 10. The studies will lead to improved designs and selection of materials for their construction.

Other key officers assigned to the Basin are: Capt. Neil Harkleroad, Technical Director of the Aerodynamics Laboratory; Cdr. Manuel da C. Vincent, Assistant Commanding Officer for Facilities; and, Cdr. Robert J. Zoeller, Administrative Officer.

L/G Gavin Advocates Research Unit In Europe

Arthur D. Little, Inc., Cambridge, Mass., will open an office in Zurich, Switzerland, next month.

Raymond Stevens, President, described this as another step in the research company's international expansion program to serve U. S. industry with overseas interests.

Support for the move came from Lt. Gen. James M. Gavin, USA-Ret., Executive Vice President, upon his recent return from Europe, where he was a delegate to the First German-American Conference in Bad Godesberg.

The new Zurich office will be headed by Alexander Bogrow, who has been in charge of A.D.L. work in the economics of the petroleum and mining industries.

Fairchild Defense Products Division Expands Research

The Defense Products Division of Fairchild Camera and Instrument Corporation at Syosset, Long Island, N. Y., in a move to expand its basic research in fundamental chemistry and physics, has appointed Dr. James E. LuValle as Director of Chemical Research for its newly-formed Physical Chemistry Laboratory.

Dr. LuValle comes to Fairchild from Technical Operations, Inc. of Burlington, Mass., where he was a Senior Scientist in charge of the Chemistry Department. Prior to that time he was associated with the Eastman Kodak Company as a Research Associate and a Senior Research Chemist. During WWII he did research at the University of Chicago and California Institute of Technology.

17 Oct. 1959 (Vol. 97, P. 189)

Army Navy Air Force Journal 25

National Guard Leaders See Army Aerial Targets



OFFICERS of the National Guard were given the opportunity to see and inspect two of the aerial targets being manufactured for them by Radioplane, a Division of Northrop Corporation.

Shown above are, left to right, Maj. Gen. Ellard A. Walsh, of Florida; Maj. Gen. Harry Crutcher, of Texas; Mr. William C. Rounds, Radioplane customer relations representative; and Maj. Gen. Carl L. Phinney, of Texas, standing in front of the exhibit which was set up at the Milton Hotel in San Antonio, Tex., during the Conference of the National Guard Association held there. Present to help explain the exhibits were Mr. William H. Habblett, Radioplane customer relations representative.

On display were the Army's RP-76

target and RP-77D aerial target. The RP-76 is a guided, recoverable target missile employed as a high-performance, high-altitude aerial target for surface-to-air and air-to-air missile systems. In the first firing of a Nike Ajax against the RP-76 the Nike found the tiny target flying at Mach 0.9 at high altitude and scored a direct hit. The RP-77D is a high-performance radio-controlled target missile in the 400 mph class for weapons training and evaluation. It is powered by a Boeing 502-10F free turbine driving a 52-inch constant-speed propeller.

The Radioplane representatives also gave descriptions of the Army's SD-1 surveillance drone, developed by Radioplane in conjunction with the Army Signal Corps. It carries a camera and may be zero-launched.

U. S. COAST GUARD

Secretary of the Treasury—Robert B. Anderson
Commandant—Vice Adm. Alfred C. Richmond

AIR FORCE ORDERS MORE HUSKIES

KAMAN Aircraft Corporation of Bloomfield, Conn., has received a follow-on contract for 42 more Air Force Huskie (H-43B) local base rescue helicopters. The new contract brings the number still to be produced to 111 through fiscal 1961.

The H-43Bs will join the Kaman H-43As already on duty at air bases on a 24-hour standby alert. The Huskie is equipped with hoist, litter racks and a specially designed fire rescue kit so that it can take effective action when it gets where it is needed.

The H-43B is a turbine helicopter powered by a Lycoming T-53, 825 horsepower engine. The turbine engine provides more power, takes less space, and is lighter in weight than an equivalent piston engine so that the Huskie has twice the cabin space and lifting capability of the former H-43A. The passenger capacity of the H-43B has increased over the "A" from 5 (including pilot and co-pilot) to 10.

Bell X-14 To NASA

Bell Aircraft Corporation's X-14, first jet-powered vertical take-off-and-landing airplane to take off vertically, transition to normal horizontal flight and land vertically while in a horizontal position, has been delivered to the National Aeronautics and Space Administration for further flight testing.

The flight evaluation program will be conducted at NASA's Ames Research Center, Moffett Field, Calif.

Bell's Niagara Frontier Division designed, built and flew the X-14 for the Air Force under a contract from the Air Research and Development Command.

The X-14 made its historic first vertical-to-horizontal-to-vertical transition in flight 24 May 1958 at the Niagara Falls, N. Y., airport. The X-14 differs from the so-called "tail-sitter" jet VTOL in that it takes off and lands in a normal horizontal position and requires no special ground handling equipment.

The X-14 has been succeeded by an advanced jet-powered operational military airplane embodying the Bell-pioneered VTOL concept developed under contract with the USAF and Navy.

Coast Guard Will Accept First Lockheed Hercules

The first of six Lockheed SC-130B prop-jet Hercules aircraft for use by the Coast Guard's Search and Rescue organization is slated for delivery at the Elizabeth City, N. C., Air Station in November.

The new planes will replace the over-age PB-1C's—the old B-17 type.

Currently undergoing flight tests at Lockheed's Marietta, Ga., plant, the rescue plane is equipped with a radar scanner that focuses a beam over a 60° sector ahead of the aircraft. The electronic beam details images on a cockpit scope within 200 yards of the plane and as far out as 200 miles.

In addition to a six-man crew—pilot, co-pilot, navigator, flight engineer, radio operator and on-the-scene commander, two scanners are stationed at the aft cargo doors. The aft observers are tied in with the rest of the crew by a telephone intercom system.

Large plexiglass windows fitted in the cargo doors permit wide-range observation. The doors can be opened in flight if dye markers or survival equipment need to be dropped.

PRESIDENT Eisenhower has named five lieutenants, three lieutenants (jg) and seven chief warrant officers (three CWO-4's and four CWO-3's) to permanent rank.

All ranks become effective from the dates the officers execute their oaths of office, with the exceptions shown below:

Lieutenant

Atkinson, James A Simpson, William H
Finley, Robert M, Jr Sullivan, Edw J, Jr
Hamilton, Joseph L E

Lieutenant (jg)

Eckman, John B Rowe, Harry A
Hicks, Joseph J

CWO-4

7 Nov—Hern, Gerard A.
25 Nov—Majkut, Peter and Halley, Raymond E.

CWO-3

Cruz, Hugo A
1 Nov—Hughes, William E and Richardson, Joseph L
9 Nov—Hundwin, Norman R.

Assignment Changes

Commander

Ernst, Robert J, MIO, New Orleans (Designated SIP).
Fowler, Alton E, MIO, Cairo (SIM) to MIO, Nashville (OCMI).
Reicker, Frederick A, MIO, San Francisco (Designated OCMI and collateral duty as Ch. mms Div, CGD12).

Lieutenant Commander

Langenbeck, Kenneth H, HQ (Designated Asst. Ch. OC Div.).
Schmidt, Edwin A, COOS BAY (EO) to MIO, Cairo (SIM).

Lieutenant

Cushman, Warren R, MIO, SFran to MIO, Long Beach.
Frawley, Roger F, CGAS, St. Petersburg (Difot) to CGAD, Sangley Point (Difot).

Klingensmith, David C, WESTWIND (EO) to HQ (ETD).
Larsen, Walter L, Jr, CGAS, San Diego (Difot) to CGAD, Annette (Difot).
Lobkovich, John F, WESTWIND (Engr Duty to EO).

Lieutenant (jg)

Bragaw, Louis K, Jr, WESTWIND (Engr Duty) to YARD (TEM) (PCO WPB-95336 & on board as CO when comm.).
Demeo, Vincent P, COOS BAY to CGD3 (dca).
Vaughn, Lee R, HQ (ECV) to HOME.
Viveros, George F, COOS BAY (Engr Duty to EO).

CWO-3

Grant, Alexander M, MIO, Long Beach to MIO, Ketchikan Detach.

CWO-2

Fulcher, Adrian, Group, Wilmington to CITRUS.
Harris, "W" "C" MIO, Norfolk to MIO, Providence—CANCELLED.
Cahill, Wendell M, CGD2 to Platzer Shipyard Corp., Houston, Texas (Res. Insp.).
Needles, Roy E, MIO, Portland, Ore, to MIO, Milwaukee.
Crowley, Timothy J, MIO, Norfolk to MIO, Providence.

WO-1

Shea, Leon D, Base, Sault Ste. Marie to Academy.
Tucker, John E, COTP, San Francisco to Depot, Yerba Buena Isl.
Mueller, William F, CGD13 (Enl to Duty).

Memphis Depot Official Named

Robert J. Minch has joined the Aircraft Equipment Division of Consolidated Diesel Electric Corporation, Stamford, Conn., as the division's sales representative in Dayton, Ohio.

Previously he was with the Memphis Air Force Depot as a contracting officer. He and his family have moved from Memphis to their new residence at 406 Brandt Street in Dayton.

Births • Marriages • Deaths

(No charge for Service announcements. Please print all names.)

Born

ABBOTT—Patterson AH, Ft Monmouth, NJ 5 Oct 1st Lt and Mrs Charles R Abbott, Highlands Av, Matawan, NJ, daughter.

ARMOUR—Fitzsimons AH, Denver 8 Oct Capt (USAF) and Mrs Thomas D Armour, son.

BAILEY—Ft Carson, Colo 30 Sep 2d Lt and Mrs Paul W Bailey, 717 Main Security Village, Colo, daughter.

BALKAU—Neubucke/Nahe, Germany 28 Sep Sp4 and Mrs Robert R Balkau, daughter, Cheryl A.

BARNETT—Ft Carson, Colo 21 Sep Maj and Mrs Lloyd Barnett, Qts 1459 AF Academy, Colo, son.

BARTON—Andrews AFB, DC 29 Sep Lt and Mrs Frederick Barton, daughter.

BAUSSER—DeWitt AH, Ft Belvoir, Va 3 Oct Lt Col (USAF) and Mrs William J Bausser, son.

BELMONT—Fitzsimons AH, Denver 7 Oct 1st Lt (USAF) and Mrs Francis J Belmonte, son.

BERGERON—Ft Dix, NJ 1 Oct Capt and Mrs George Bergeron, daughter, Susan Margaret.

BRAZER—Detroit, Mich 19 Sep Capt and Mrs Vincent M Brazier, 13420 Rosemary, Detroit 13, son, Stephen Francis.

BRIGGS—WRAH, Washington, DC 7 Oct Lt Col (USAF) and Mrs John A Briggs, son.

BROOKS—DeWitt AH, Ft Belvoir, Va 8 Oct Lt Col and Mrs Robert L Brooks, Jr, daughter.

BROWN—Ft Carson, Colo 18 Sep WO and Mrs Charles E Brown, 97 Stevens Dr, Colorado Springs, Colo, daughter.

BROWN—Ramey AFB, PR 26 Sep S/Sgt and Mrs Harold Brown, daughter.

BUSH—Keesler AFB, Miss 3 Oct 1st Lt and Mrs Albert E Bush, son, David Roy.

CALLISTER—Travis AFB, Calif 21 Sep 1st Lt and Mrs William E Callister, son.

CAUSEY—Andrews AFB, DC 4 Sep Lt and Mrs Calvin A Causey, daughter.

CLAFLIN—Annapolis, Md 26 Sep 2d Lt and Mrs Alan B Claflin, B Btry, 1st Mal Bn, 562d Arty, Davidsonville, Md, daughter, Catherine Ann, granddaughter of Brig Gen and Mrs Graydon C Essman, Arlington, Va; and of Mr and Mrs F F Claflin, Frederick, Md.

CLARK—Ft Carson, Colo 24 Sep 1st Lt and Mrs Donald Clark, 77 Sherri Dr, Colorado Springs, Colo, daughter.

CLARK—Ft Carson, Colo 28 Sep Capt and Mrs James Clark, 307 Maplewood Dr, Colorado Springs, Colo, daughter.

CALE—Ft Carson, Colo 25 Sep 1st Lt and Mrs Harvey Cale, 329 May Dr, Colorado Springs, Colo, daughter.

CAMPBELL—DeWitt AH, Ft Belvoir, Va 4 Oct 2d Lt and Mrs John R Campbell, Jr, daughter.

CAPEL—Lackland AFB, Tex 30 Sep 1st Lt and Mrs Francis Capell, son.

CARUSO—DeWitt AH, Ft Belvoir, Va 7 Oct Capt (USAF) and Mrs Charles P Caruso, daughter.

CHILD—West Point, NY 26 Sep CWO and Mrs Herbert A Childs, 579th AF Band, Stewart AFB, NY, daughter, Angela Faye.

CINTRON—Neubucke/Nahe, Germany 25 Sep Sgt and Mrs Antonio Cintron, daughter, Rosa M.

CLARK—Ramey AFB, PR 26 Sep 1st Lt and Mrs Alvin S Clark, daughter.

CLAWSON—Ft Carson, Colo 18 Sep 1st Lt and Mrs David Clawton, Cheyenne Mountain, Colo, son.

CONNELLY—Wright-Patterson AFB, O 25 Sep Capt and Mrs John P Connelly, daughter.

COOK—Lackland AFB, Tex 30 Sep 2d Lt and Mrs Dale Cook, Rt 5, Box 508, Lackland AFB, Tex, son.

COOK—Richmond, Va 9 Sep Dr and Mrs Samuel Leonard Cooke, Jr, son, Samuel Leonard, 3d, grandson of Col (USA-MC, Ret) and Mrs Samuel L Cooke, Memorial Medical Center, Williamson, Va, and of Mr and Mrs Raymond G McGhee, Richmond, Va.

COUNTS—DeWitt AH, Ft Belvoir, Va 3 Oct Maj and Mrs Charles R Counts, son.

COVILLE—Ft Dix, NJ 30 Sep 1st Lt and Mrs David W Coville, daughter, Brenda Lynn.

CYRUS—Keesler AFB, Miss 29 Sep 1st Lt and Mrs Jack R Cyrus, sr, son, Jack Ronald, Jr.

DAUM—Travis AFB, Calif 21 Sep WO and Mrs William D Daum, daughter.

DEFFEBACH—DeWitt AH, Ft Belvoir, Va 4 Oct Maj (USAF) and Mrs Harry W Deffebach, son.

DEVLIN—WRAH, Washington, DC 9 Sep Lt Col and Mrs Francis T Devlin, 5044 Kingle St, NW, Washington, son, Francis Thomas, Jr.

DUFFLEY—Ft Meade, Md 4 Oct Maj and Mrs Thomas L Duffley, daughter.

DONAHUE—Keesler AFB, Miss 9 Sep Capt and Mrs James P Donahue, daughter, Erin Catherine.

DOTTER—Cp Zama, Japan 6 Oct PN3 and Mrs Jerome W Dotter, daughter, Charlene Carolyn.

DRUMM—Lackland AFB, Tex 4 Oct Maj and Mrs Robert Drumm, daughter.

DUFFY—Ft Meade, Md 1 Oct Maj and Mrs Charles R Duffy, son.

EASTMAN—WRAH, Washington, DC 4 Oct 1st Lt and Mrs George A Eastman, son.

EMERY—DeWitt AH, Ft Belvoir, Va 4 Oct Maj and Mrs Joseph Emery, Jr, daughter.

ENGQUIST—WRAH, Washington, DC 8 Oct 1st Lt and Mrs David Engquist, son.

ERICSON—Travis AFB, Calif 21 Sep 1st Lt and Mrs Dudley Ericson, daughter.

FARRY—Wright-Patterson AFB, O 26 Sep Lt Col and Mrs Albert B Farry, daughter.

FISHER—Ft Carson, Colo 1 Oct 2d Lt and Mrs Kenneth L Fisher, 1235 James Lane, Colorado Springs, son.

FLATLEY—St Paul, Minn 28 Sep Lt Col and Mrs Thomas W Flatley, 2065 Fairmount Ave, St Paul, daughter, Mary Alice.

FOX—Cp Zama, Japan 5 Oct Sgt and Mrs Charles C Fox, son, John De Wayne.

FRIEDLANDER—Andrews AFB, DC 17 Sep Col and Mrs Edward A Friedlander, daughter.

GARZA—Neubucke/Nahe, Germany 25 Sep Sp4 and Mrs Miguel Garza, daughter, Kim.

GLOSSOP—Ft Dix, NJ 1 Oct Lt Col and Mrs Marvon Glossop, daughter, Patricia Dianne.

GRANT—DeWitt AH, Ft Belvoir, Va 3 Oct Col (USAF) and Mrs Thomas J Grant, son.

GRAY—Ramey AFB, PR 25 Sep S/Sgt and Mrs Louis Gray, son.

GREENWALT—Carlisle Bks, Pa 4 Oct Lt Col and Mrs William J Greenwalt, son.

GUIDE—Wright-Patterson AFB, O 24 Sep 1st Lt and Mrs Robert G Guide, daughter.

HARRING—West Point, NY 27 Sep 1st Lt and Mrs Anthony V Harring, QM Sch, Ft Lee, Va, son, James Anthony.

HARRIS—Andrews AFB, DC 11 Sep Capt and Mrs Ernest J Harris, daughter.

HAWKINS—Lackland AFB, Tex 26 Sep 2d Lt and Mrs Robert Hawkins, son.

HAYES—Ft Dix, NJ 29 Sep 1st Lt and Mrs John W Hayes, son, Steven Douglas.

HEATH—Wright-Patterson AFB, O 26 Sep CMI (USN) and Mrs Selden Heath, 2d, son.

HELLAUER—Keesler AFB, Miss 20 Sep 1st Lt and Mrs Joseph F Hellauer, daughter, Kristin Jean.

HEMPLE—Ft Riley, Kans 1 Oct 1st Lt and Mrs Bruce Hemple, daughter.

HENNESSY—Patterson AH, Ft Monmouth, NJ 5 Oct Capt and Mrs Joseph J Hennessy, son.

HENSLEY—Ft Meade, Md 29 Sep CWO and Mrs William T Hensley, son.

HILYARD—Newport, RI 7 Oct Lt (Jg) and Mrs Bruce W Hilyard, USN, 102 Russell Ave, Portsmouth, RI, son.

HOLLOWAY—Cp Zama, Japan 4 Oct CTSN and Mrs Larry W Holloway, daughter, Julia Lynn.

HOWE—Ramey AFB, PR 24 Sep S/Sgt and Mrs Arnold Howe, son.

JABLONSKI—Sheppard AFB, Tex 30 Sep 2d Lt and Mrs Richard B Jablonski, daughter, Cathleen Brooke.

JAMES—Ft Carson, Colo 1 Oct CWO and Mrs William J James, Qts 7258-A, Ft Carson, daughter.

JOHNSON—Ft Gordon, Ga recently 2d Lt and Mrs Rudd B Johnson, son.

JONES—Lackland AFB, Tex 6 Sep Capt and Mrs Frank Jones, daughter.

JONES—Neubucke/Nahe, Germany 28 Sep Sp4 and Mrs Raymond E Jones, son, Gary E.

KERN—Wright-Patterson AFB, O 25 Sep 2d Lt and Mrs Edward A Kern, daughter.

KNOBLOCK—WRAH, Washington, DC 5 Oct Maj and Mrs Edmund Knoblock, son.

KOESTNER—Wright-Patterson AFB, O 26 Sep Capt and Mrs Raymond F Koestner, daughter.

KRAUS—Ft Gordon, Ga recently 2d Lt and Mrs Robert Kraus, son.

KRUGER—Ft Brooke, PR 30 Sep Maj and Mrs Robert E Kruger, daughter, Carol Margaret.

LANDOLF—Travis AFB, Calif 25 Sep 1st Lt and Mrs Edward W Landolf, daughter.

LANGLOIS—Andrews AFB, DC 11 Sep Capt and Mrs Russell G Langlois, son.

LASITER—Vance AFB, Okla 30 Sep 1st Lt and Mrs Carl W Lasiter, daughter.

LEE—Wright-Patterson AFB, O 23 Sep 2d Lt and Mrs Peter J Lee, son.

LEHMANN—Ft Riley, Kans 1 Oct 1st Lt and Mrs Freddie Lehmann, son, Kenneth Ray.

LESBURG—Ft Benjamin Harrison, Ind recently Capt and Mrs William Lesburg, daughter.

LITTLE—Ft Meade, Md 30 Sep 2d Lt and Mrs Rankin R Little, daughter.

LIPPETT—Neubucke/Nahe, Germany 26 Sep Sp4 and Mrs Raymond G Lippett, son, James A.

LOOKABOUGH—Ft Carson, Colo 1 Oct 1st Lt and Mrs Charles Lookabough, 1322 E Kiowa, Colorado Springs, Colo, daughter.

LOWEN—13 Sep Mr and Mrs Roger Lowen, Arlington, Va, daughter, Karen Ann, granddaughter of Col (USAF) and Mrs D M Singer, AF Sect, MAAG, Taiwan, APO 63, SF.

MALONEY—Cp Zama, Japan 5 Oct Sfc and Mrs Thomas G Maloney, son, David Wayne.

MARTIN—Keesler AFB, Miss 3 Oct Capt and Mrs John K Martin, son, Michael Thomas.

McBEE—Neubucke/Nahe, Germany 1 Oct 1st Lt and Mrs Willie H McBee, daughter, Bettina L.

McCARTY—DeWitt AH, Ft Belvoir, Va 2 Oct Maj and Mrs Justin J McCarty, son.

McCRADY—Newport, RI 9 Oct Lt Col (USAF) and Mrs John F McCrady, 100 Van Zandt Ave, Newport, daughter.

McGHEE—Cp Zama, Japan 3 Oct Sgt and Mrs Charles W McGhee, son, Charles Wendell.

McINTYRE—Ft Carson, Colo 24 Sep Capt and Mrs Walter V McIntyre, 1109 Palmer Pl Blvd, Colorado Springs, Colo, daughter.

McKEE—Ft Carson, Colo 29 Sep Capt and Mrs Preston McKee, 9 West Cimarron, Colorado Springs, Colo, daughter.

McKEE—Newport, RI 2 Oct Lt (Jg) and Mrs Thomas D McKee, 3 Buck Road, Middletown, RI, daughter.

McKENZIE—Travis AFB, Calif 22 Sep 1st Lt and Mrs James R McKenzie, son.

McNAMARA—Ft Carson, Colo 20 Sep 1st Lt and Mrs Michael McNamara, Qts 4516-F, Air Force Academy, Colo, son.

MILLER—Ft Leonard Wood, Mo 26 Sep 1st Lt and Mrs Edward E Miller, son, Scott Edward.

MONTANER—Fitzsimons AH, Denver 3 Oct Capt and Mrs Luis F Montaner, daughter.

MOORE—Keesler AFB, Miss 2 Oct Maj and Mrs John L Moore, Jr, son, Theodore Edwin.

MORGAN—Cp Zama, Japan 7 Oct Sp4 and Mrs Marvin D Morgan, daughter, Linda Naomi.

MORRIS—Neubucke/Nahe, Germany 28 Sep 1st Lt and Mrs Joseph L Morris, son, Timothy W.

NAGEL—Wright-Patterson AFB, O 24 Sep 1st Lt and Mrs Donald M Nagel, daughter.

NIXON—Ft Dix, NJ 3 Oct Capt and Mrs John L Nixon, Jr, son, Michael Thomas.

NOLL—Wright-Patterson AFB, O 23 Sep Capt and Mrs Paul L Noll, son.

NOVAK—Wright-Patterson AFB, O 29 Sep Maj and Mrs Eugene A Novak, son.

OLIVER—Ft Carson, Colo 19 Sep Capt and Mrs Charles Oliver, Qts 4508-B, Air Force Academy, Colo, daughter.

ORTIZ—Neubucke/Nahe, Germany 25 Sep 1st Lt and Mrs Juan Ortiz, son, Victor.

PARTAIN—DeWitt AH, Ft Belvoir, Va 6 Oct Cnt and Mrs Edward A Partain, son.

PHILLIPS—Vicenza, Italy 14 Aug Sp6 and Mrs Donald L Phillips, son, Ronald J.

PHILO—Andrews AFB, DC 21 Sep Maj and Mrs Herbert A Philo, daughter.

PHILPOT—Neubucke/Nahe, Germany 30 Sep CWO and Mrs James S Philpot, son, Robert J.

PLATT—Vance AFB, Okla 1 Oct 1st Lt and Mrs Jimmie P Platt, daughter.

POE—Lackland AFB, Tex 3 Oct 1st Lt and Mrs Charles Poe, 4927 Eldridge Ave, Lackland AFB, son.

POPP—Sheppard AFB, Tex 25 Sep 2d Lt and Mrs Calvin R Popp, daughter, Milissa.

PORTER—Cp Zama, Japan 4 Oct Capt and Mrs Carl F Porter, son, Alan Freel.

PRADO—Andrews AFB, DC 26 Sep Capt and Mrs Innocencio L Prado, son.

RABASA—Cp Zama, Japan 6 Oct Sp5 and Mrs Juan Rabasa, daughter, Shirley Emil.

RANKIN—Quantico, Va 30 Sep Lt and Mrs Daniel L Rankin, 3d, son, Michael Joseph.

REDDINGTON—Andrews AFB, DC 20 Sep Lt and Mrs Matthew D Reddington, daughter.

REH—Vicenza, Italy 20 Aug S/Sgt and Mrs William J Reh, daughter, Kim Y.

RENTROP—Cp Zama, Japan 6 Oct Sfc and Mrs Laurie W Rentrop, daughter, Lisa Joyce.

RICE—Ft Benjamin Harrison, Ind recently 1st Lt and Mrs Jack Rice, son.

RICHARDSON—Neubucke/Nahe, Germany 24 Sept Sgt and Mrs James L Richardson, daughter, Debra E.

ROBISCH—Honolulu, Hawaii, 11 Sept Lt (USN) and Mrs Herbert E Robisch, third daughter, Kristin Malle.

ROSE—Ft Benjamin Harrison, Ind recently 1st Lt and Mrs James Rose, son.

ROYS—Wright-Patterson AFB, O 23 Sep 1st Lt and Mrs George P Roys, son.

RUSSELL—Ft Benjamin Harrison, Ind recently 2d Lt and Mrs Frederick Russell, son.

SCHIER—West Point, NY 27 Sep Maj and Mrs Irwin A Schier, BADS, Stewart AFB, NY, son, Carl Irwin.

SCONYERS—DeWitt AH, Ft Belvoir, Va 5 Oct Lt Col and Mrs Joseph M Sconyers, daughter.

SERGOTT—Ft Gordon, Ga recently 2d Lt and Mrs John A Sergott, son.

SHERMAN—Ft Dix, NJ 30 Sep 1st Lt and Mrs William B Sherman, son, William Frank.

SHEVICK—Andrews AFB, DC 16 Sep Capt and Mrs Murray P Shevick, daughter.

SHIELDS—Andrews AFB, DC 19 Sep Capt and Mrs Jack Shields, daughter.

SHINER—Ft Gordon, Ga recently 1st Lt and Mrs James W Shiner, son.

SMETHURST—Vicenza, Italy 29 Aug Sfc and Mrs Richard M Smethurst, daughter, Barbara A.

SMILEY—Lackland AFB, Tex 24 Sep CWO and Mrs Allen Smiley, son.

SMITH—Neubucke/Nahe, Germany 24 Sep Sp5 and Mrs Charles E Smith, son, Gary L.

SPARKS—Ft Benjamin Harrison, Ind recently Capt (Ret) and Mrs James Sparks, daughter.

SPENCER—Cp Zama, Japan 1 Oct PH2 and Mrs Robert W Spencer, daughter, Barbara Louise.

STANLEY—Vicenza, Italy 26 Aug Sp4 and Mrs Claude E Stanley, son, James P.

STEWART—Neubucke/Nahe, Germany 25 Sep Sp5 and Mrs William H Stewart, son, Michael W.

STRANDQUIST—Newport, RI 7 Oct Capt (USMC) and Mrs John H Strandquist, 8 Orville Dr, Middletown, RI, daughter.

SUSKI—DeWitt AH, Ft Belvoir, Va 2 Oct Lt (USCG) and Mrs Henry Suski, son.

SUTHERLIN—Andrews AFB, DC 12 Sep Lt and Mrs Benjamin T Sutherlin, son.

TAYLOR—Wright-Patterson AFB, O 23 Sep Col and Mrs John P Taylor, son.

TAYLOR—WRAH, Washington, DC 4 Oct Capt and Mrs Jones Taylor, daughter.

TAYLOR—Lackland AFB, Tex 7 Oct 2d Lt and Mrs Roger Taylor, son.

TAYLOR—Neubucke/Nahe, Germany 27 Sep M/Sgt and Mrs William J Taylor, son, James.

TERRY—Vicenza, Italy 20 Aug Sfc and Mrs Warren H Terry, daughter, Loretta V.

TSYKOWSKI—Ft Lee, Va 29 Sep Capt and Mrs Theodore E Tsykowski, son, Robert Matthew, Captain Tsykowski is asg to QM Intelligence Agency, Wash, DC.

TUFTS—Thomas H Ince Memorial Hosp, Twentynine Palms, Calif 8 Oct Capt (USMC) and Mrs Ralph W Tufts, 7313 Sun Valley Dr, Twentynine Palms, son, Jonathan Peter.

UNROE—Neubucke/Nahe, Germany 26 Sep Sgt and Mrs Johnnie Unroe, daughter, Barbara E.

VICKERS—Ft Gordon, Ga recently 2d Lt and Mrs George D Vickers, daughter.

VOGEL—Sharp Memorial Hosp, San Diego 2 Oct Lt and Mrs Carl P Vogel, Jr, NAS, Miramar, Calif, daughter, Carla Sue, granddaughter of Brig Gen (USA-Ret) and Mrs J V Thompson, 3966 Commander Dr, Columbus, Ga, and great-granddaughter of Col Herbert E Mann, USA-Ret.

WALDEN—Newport, RI 7 Oct Lt and Mrs John W Walden, 2-D Van Buren Rd, Newport, daughter.

WALKER—Vicenza, Italy 9 Aug Sp5 and Mrs Roy T Walker, son, James M.

WEATHERFORD—Cp Zama, Japan 5 Oct S/Sgt and Mrs Joseph W Weatherford, son, James William.

WERT—Vicenza, Italy 22 Aug Sgt and Mrs William C Wert, daughter, Terry L.

WILDE—Fitzsimons AH, Denver 8 Oct Capt (USAF) and Mrs Charles A Wilde, daughter.

WILLIAMS—Vicenza, Italy 16 Aug Sgt and Mrs Alvin A Williams, daughter, Lena A.

WILLIAMS—West Point, NY 27 Sep 1st Lt and Mrs Donald L Williams, 4713th REV RON, Stewart AFB, NY, son, Donald Lee.

WILSON—Travis AFB, Calif 26 Sep Lt Col and Mrs Kermit J Wilson, son.

WOLFE—Andrews AFB, DC 4 Sep Lt Col and Mrs Fred J Wolfe, daughter.

YERKS—Wright-Patterson AFB, O 23 Sep Capt and Mrs Robert G Yerks, son.

Married

HURT-ROBBINS—Congregational Church, Dummerston, Vt 10 Oct Miss Marjorie Belle Robbins, daughter of Mr & Mrs Merton C Robbins, Brattleboro, Vt, and Mr Thomas Wickham Hurt, son of Mrs Guy Stringer, Alexandria, Va, and the late Capt David A Hurt, USN.

NORVELL-WYLLIE—Christ Episcopal Church, Charlottesville, Va 10 Oct Miss Margaret Lambeth Wyllie, daughter of Mr & Mrs Thomas Hodges Wyllie, Charlottesville, and Mr William Clanton Norvell, Jr, son of Admiral & Mrs Norvell, Alexandria, Va.

PASCALL-TAYLOR—First Presbyterian Church, Richmond, Va 10 Oct Miss Sue Sturgis Taylor, daughter of Mr & Mrs Joseph Carroll Taylor, Richmond, and Lt (Jg) Peter Bayard Paschall, USNR, son of Mr and Mrs Edward M Paschall, Pic-Afield, NJ.

SMITH-OLSON—First Presbyterian Church, South Bend, Ind 3 Oct Miss Karen Elizabeth Olson, daughter of Dr & Mrs Kenneth Lloyd Olson, South Bend, and Lt Gordon Leigh Smith, USMC, son of Mrs Sidney Layton Smith, Deepwood Rd, Baltimore, Md, and the late Commander Smith, USN.

WALDBILLIG-SMITH—Roman Catholic Church of the Resurrection, Rye, NY 10 Oct Miss Marsha-Lee Smith, daughter of Mr & Mrs Marshall Smith, and Mrs Michael Anthony Waldbillig, USNR, son of Mr & Mrs Gerald Waldbillig.

Died

AKIN—Died at her home at Purcellville, Va 10 Oct Mrs Eleanor Stone Akin 64, wife of the former Chief of the Army Signal Corps.

"Three-Screw" Oceanographic Vessel Sounds The Depths To Aid Navy's Drive For Improved ASW Gear

NAVAL WEAPONS LAB
WASHINGTON, D. C.

THE Navy is stepping up its program of basic research in marine physics with emphasis on underwater sound research.

The work is being performed by the Navy's only oceanographic vessel, the USNS Josiah Willard Gibbs, operated by the Military Sea Transportation Service for Columbia University's Hudson Laboratories under contract to the Office of Naval Research.

In an interview with reporters here while the vessel was being fitted with special electronic gear, Hudson Lab Director Dr. Robert A. Frosch stressed the point that the Gibbs is not a hydrographic vessel engaging in survey work. The Gibbs' mission, he said, is to perform basic underwater acoustic experiments

with a view toward improving the Navy's anti-submarine warfare capability.

Mr. Frosch said the experiments involve determining the physical properties of seawater as related to the transmission of sound waves.

He said that many factors are involved, such as water temperature, turbulence, pressure weather, currents and condition of the sea bottom. Basically, the Hudson Lab Director said, the objective of the experiments is to "study the fundamental effects of submarines passing through sea water." What is learned by Gibbs' scientists is passed to ONR which makes recommendations to the Navy for improvements in underwater detection gear and ASW weapons.

Mr. Frosch said that Gibbs "lacks some of the capability we would like to have." He said the chief limitation is in the main propulsion plant.

A modified 1942 seaplane tender, the Gibbs "doesn't back well" and is not quiet enough for some of the intricate experiments carried out by underwater research scientists. "Under some conditions," one scientist said, "we can scarcely do a good acoustical experiment."

In many experiments it is necessary that the ship run silent and in one place. A specially devised rig for a silent generator has been installed aboard the Gibbs. The generator is hung on cables of bunched rubber bands so that the regular ship noises will not interfere with delicate experiments. In addition, the vessel has been equipped with a third screw that permits her to "hover" over underwater gear.

The addition of the outboard motor-

type screw makes Gibbs the only three-screw ship operated by the Navy. Dubbed the "little monster" by Capt. Dwight Hutchinson and the Gibbs' crew, the large outboard motor, installed in-board, permits the vessel to be propelled at speeds of about four knots and provides increased maneuverability for special underwater experiments.

Gibbs is now in the Bahamas "Tongue of the Ocean" area, a 1,000 fathom deep area about 40 miles across that is particularly suited to underwater acoustic tests.

Before the end of the year, Gibbs will be fitted out with the heaviest deep sea winch in use in the United States. The new winch will enable Gibbs to handle up to 40,000 feet of wire rope for sounding purposes and will be able to raise and lower 20 tons of equipment. She now has a 30,000 pound capacity winch.

Hudson Lab scientists work closely with British and Canadian researchers and maintain close liaison with the ASW Laboratory in La Spezia, Italy, under Directorship of Dr. Eugene T. Booth, who was first Director of Hudson Laboratories.

Gibbs was converted at a cost of \$1 million.

Congress has approved construction of the first oceanographic vessel in the Fiscal Year 1960 budget. To be built from the keel up the new ship, will cost about \$4 million. The new oceanographic vessel will be about 200 feet long.

Gibbs' Chief Mate is George W. Fladerer. Second Officer is Joseph D. Boston. Chief Steward is Frederick T. Kelley and Chief Engineer is Eugene L. Gentsch.

Army & Air Guard Best Fitted To Bring U. S. Recovery From A-Attack, NGA Is Told

From first page—

military forces." It is likely, he said, that a large number of these units will survive intact.

Recovery from nuclear attack, General Rich told the nearly 3,000 delegates and their guests from the Departments of the Army and the Air Force, is a seriously neglected area in defense planning. It is beyond what we consider today to be within the capability of the Civil Defense organization, he added.

"What we are talking about," General Rich said, "is a mission which will require the services of every organized force, and we must be mindful that in the event of such an attack, we will be able to count on only a relatively small portion of Regular forces in the Continental United States."

Prepare To Fight Back

"In the period immediately following a nuclear strike against multiple strategic targets, the country is envisioned as being completely devastated, without communications or transportation, lacking national leadership and direction. This is the devastation from which we must recover, prepare to defend ourselves, and to fight back."

General Rich said that the Defense Department and the public should be

mindful that the National Guard in most states has signal units capable of providing communications, engineer units for bridge and road building, medical units for field hospitals, quartermaster units for mass feeding, transportation units, and trained manpower for security.

He pointed out, however, that in emphasizing the Guard's ability in connection with nuclear recovery, he is not seeking a mission which would in any way interfere with its primary mission as "the first line reserve" of the Army and Air Force.

Air Under Sec'y Sees Role

In an address to the same session of the Conference, Under Secretary of the Air Force Dudley C. Sharp touched on the same capability of the Air National Guard. In his speech, Mr. Sharp said:

"There is the problem of recovery from an atomic onslaught. The Air Force would have to re-establish base operations, facilities, communication networks, and all other phases of its operation. We would also have to re-establish effectiveness of our combat units, and continue operations."

"The problem is broad, of course, but I see no reason why we can't give some of this work to Guardsmen. No one is better qualified to cope with it than you are."

Chrysler Official Chosen Marine B/G

From Private to General is the story of Marine Reserve Brig. Gen. William H. Klenke, jr., 875 North Harsdale, Bloomfield Hills, Mich.

He enlisted in the Marine Corps as a Private in April 1929 and completed flight training at the Naval Air Station, Pensacola, Fla., in February 1931.

As a "flying sergeant", General Klenke became a member of the Marine Corps' first aircraft carrier squadron, VS-14M, aboard the USS Saratoga in 1931 where he remained for 18 months. He was also a member of Lt. L. H. Sanderson's well known pursuit squadron, VF-9M, which

flew precision demonstrations at many air shows throughout the country.

He is associated with the Chrysler Corporation as Administrative Assistant to the Group Vice President Automotive Sales at General Offices in Highland Park. He also holds a civilian transport pilot's license issued in 1933.

General Klenke is married to the former Winifred Stoddard of Los Angeles. They have one daughter, Carol.

Du Mont Fills Military Post

Appointment of Myron R. Howe as Manager of Management Services for the Military Electronic Operations of Allen B. Du Mont Laboratories, Inc. is announced by Robert T. Cavanaugh, the company's General Manager for Military.

Maj Gen Spencer B Akin, USA-Ret. Also survived by two daughters, Mrs Eleanor Smith of Ithaca, NY, & Mrs Martha A Lawrence of Raleigh, NC; and five grandchildren. Burial Arlington National Cemetery, Washington, DC.

ANTHONY—Died Marlboro, NJ 13 Sep Col Franklin R Anthony, Ret.

ANDERSON—Died 3 Oct Lt Cortney M Anderson, USNR.

BADE — Letterman AH, Presidio of San Francisco, Calif 9 Oct Maj Gen Paul William Baade, USA-Ret, USMA '11, 70, Commander, 35th Inf Div in Europe in WWII. Survived by his widow, Mrs Margaret Craig Baade, 901 Picacho Ln, Montecito, Santa Barbara, Calif, Burial Arlington National Cemetery, Washington, DC 15 Oct.

BARGER—Died 16 Sep Lt Col Lloyd M Barger, DC-Ret.

BERGERSON—Died San Francisco, Calif 16 Sep Lt Col Genevieve Bergeson, ANC-Ret.

BLANK—Died 5 Oct Lt (jg) Douglas A Blank, USN.

BRANDON—Died Washington, DC 6 Sep Lt Col Donald V Brandon, Ret.

BRYAN—Died 9 Oct Mrs Virginia B Bryan, wife of Capt Louis A Bryan, 5403 Youngblood St, McLean, Va. Also survived by two daughters, Nancy & Margaret Bryan; one son, Robert Bryan; and her parents, Mr & Mrs Watts Bean, Lexington, Ky. Burial Arlington National Cemetery, Washington, DC.

CABLES—Died Philippine Islands 13 Aug Capt Alfredo C Cables, Ret.

CARTER—Died Italy 2 Oct CWO Harry W Carter, ORDC.

CAVENEY—Died San Francisco, Calif 24 Aug Col Ray E Caveney, USA-Ret.

CHANCE—Died Pasadena, Calif 24 Sep, after a long illness, Maj Patricia M Chance, GSC, WAC, 51, former Executive Secretary to Col Oveta C Hobby, WWII Director of the WAC. Survived by her husband, Col Peter E Chance, USA, 1034 Foothill Blvd, La Canada, Calif; and one daughter, Patricia M Chance, Interment Ft Rosecrans National Cemetery, San Diego.

CLEMENT—Died St Petersburg, Fla 9 Oct Lt Col Martha Jane Clement, NC, USA-Ret, Chief Nurse in the Pacific theater in WWII. Burial Arlington National Cemetery, Washington, DC.

COMSTOCK—Died 2 Aug Capt Earl Comstock, Ret.

CONREY—Died Ft Worth, Tex 18 Sep Lt Col Hugh F Conrey, USA-Ret.

COSBY—Died Ft Lee, Va 18 Sep Capt Christine O Cosby, ANC-Ret.

COSART—Died Philadelphia, Pa 19 Aug Maj James B Cosart, Ret.

DAVIDSON—Died 9 Oct Lt (jg) Edward C. Davidson, USN.

DENISON—Died Walter Reed AH, Washington, DC 7 Oct Col Charles R Denison, USA-Ret. Survived by his widow, Mrs Esther Denison, 727 Dartmouth Ave, Silver Spring, Md; four daughters, Mrs Nancy McDonald, Glendale, Calif, Mrs Marjorie Harman, Silver Spring, Susan & Carol Denison of the home address; one son, Thomas Denison; and his mother, Mrs Andrew H Weller, Saranac Lake, NY. Burial Arlington National Cemetery.

DRISCOLL—Died Ft Lauderdale, Fla 2 Sep Col Joseph M Driscoll, Ret.

DUGMORE—Died Hannibal, Mo 17 Aug Maj John B Dugmore, DC-Ret.

EDDINGTON—Died San Diego, Calif 18 Sep Lt Col Thomas W Eddington, USA-Ret.

FICKES—Died St Petersburg, Fla 13 Sep Col John B Fickes, Ret.

FLOYD—Died 1 Sep Lt Col William R Floyd, Jr, Ret.

GARNER—Died Ft Sam Houston, Tex 9 Sep Maj Mark S Garner, Ret.

GIMPERLING—Died Denver, Colo 11 Oct Col Thomas Norton Gimperling, USA-Ret, USMA '04 '79. Survived by his widow, Mrs Helen C Gimperling, 605 E 9th St., Denver; and one daughter, Mrs Gretchen T. Singles, wife of Col Gordon Singles, USA, 912 Braddock Rd, Alexandria, Va. Burial Arlington National Cemetery 15 Oct.

HARLOW—Died 7 Oct LCDR Harry B Harlow, USN.

JOHNSON—Died Pomona, Calif 22 Aug 1st Lt Carl D Johnson, Ret.

JONES—Died Bakersfield, Calif 10 Sep of cancer, Dr Augustus B Jones, jr, son of Mrs Ethel T Jones, Palo Alto, Calif, & the late Colonel Jones, sr. In addition to his mother, he is survived by his widow, Mrs Florence H Jones, 933 Shattuck Ave, Bakersfield; two children, and one brother, Burial Golden Gate National Cemetery, San Francisco.

KALISZ—Died Chicago, Ill 22 Aug Lt Col William F Kalisz, Ret.

KENNEDY—Died 10 Oct Lt William Kennedy, USA-Ret, Burial Arlington National Cemetery, Washington, DC.

LARABEE—Died Pacific Palisades, Calif 13 Sep Lt Col Oscar S Larabee, Jr, Ret.

LEGATE—Died Ft Sam Houston, Tex 18 Sep Capt John W Legate, Ret.

MACDONALD—Died at St Albans, LI, NY 18 Sep Maj George R MacDonald, Ret.

MANLEY—Died Philadelphia, Pa 3 Sep Lt Col John E Manley, Ret.

MCINTYRE—Died Anaheim, Calif 16 Oct Capt John R McIntyre, USN. Survived by his widow, Mrs Martha L McIntyre; one daughter, Mrs Mary M Gray, Waltham,

Mass; two sons, Lt John R McIntyre, jr, USN, Dover, Del, & Mr Andrew J McIntyre, Washington, DC; and three grandchildren. Burial Arlington National Cemetery, Washington.

MC SHANE—Died Walter Reed AH, Washington, DC 10 Oct Maj Melvin L McShane, USA, 46. Survived by his widow, Mrs Jane McShane, 10305 Leslie St, Silver Spring, Md; one daughter, Victoria McShane, 7; and his parents, Mr & Mrs Thomas P McShane, Louisville, Ky. Burial Louisville.

MOORE—Died 2 Oct LCDR William G Moore, USN.

NICKELL—Died 6 Oct Capt Raymond O Nickell, DC, USN.

OWENS—Died 21 Aug Maj James P Owens, Ret.

PETERS—Died Letterman AH, Presidio of San Francisco, Calif 4 Sep Col Frank C Peters, USA-Ret, Survived by his widow, Mrs Marigold M Peters, 24 Santa Margarita Dr, San Rafael, Calif.

RAUDABAUGH—Died USAFH, Maxwell AFB 12 Oct of a heart attack, Mrs Eleanor S Raudabaugh, wife of Col Albert S Raudabaugh, Comptroller, Air University. Also survived by one daughter, Mrs Bette R Corwin, Williamsburg, Va, and one son, Albert S Raudabaugh, jr, a student in the Maxwell Elementary School.

REAMY—Died Schenectady, NY 7 Oct Capt Thomas G Reamy, USN-Ret, (USNA '25), 56. Survived by his widow, Mrs Ruth Reamy, 2051 McClellan St, Schenectady; one son, David J Reamy, Schenectady; two sisters; and three brothers, one of whom is Lt Col J S Reamy, USMC, Ft Monmouth, NJ. Burial Arlington National Cemetery, Washington, DC.

REITER—Died Auckland, NZ while on a trip with his wife, 1 Oct Col Fred M Reiter, USA-Ret, of heart attack. Survived by his widow, Mrs Anna Reiter, 3726 Connecticut Ave, NW, Washington, DC, and two sons, Sydney H Reiter, Mountainside, NJ, & Robert H Reiter, Washington. Burial Arlington National Cemetery 15 Oct.

RHOADES—Died San Francisco, Calif 14 Sep Capt Jesse F Rhoades, MC-Ret.

RODRIGUEZ—Died Ft Brooke, PR 13 Sep Capt Ulpiano P Rodriguez, Ret.

SCOTT—Died Ft Worth, Tex 11 Sep Col John L Scott, USA-Ret.

SEABROOKE—Died Fitzgerald, Ga 10 Sep Maj William H Seabrooke, Ret.

SEELEY—Died Waconia, Minn 27 Sep 2d Lt George C Seeley, Arty.

SHERLOCK—Died Seattle, Wash 9 Sep 1st Lt John O Sherlock, Ret.

STEVENSON—Died Brookley, Ala 3 Sep WO (jg) James A Stevenson, Ret.

STEWART—Died San Antonio, Tex 26 Sep Lt Col David L Stewart, USA-Ret. Survived by his widow, Mrs Amy F Stewart, 827 Wiltshire Blvd, San Antonio; one daughter, Mrs James E Godwin, Qtrs 62, West Point, NY; two sons, David L Stewart, Noblesville, Ind, & Dana L Stewart, Cleveland, O; and five grandchildren.

TOBIASON—Died USNH, San Diego, Calif 2 Oct LCDR Olaf G Tobiason, USCG-Ret. Survived by his widow, Mrs Anna L Tobiason, 5070 Madison Ave, San Diego 15.

TOWLER—Died aboard a train near Newport, Ark while enroute to a temporary assignment at Kelly AFB, Tex from Ft Meade, Md 6 Oct Col Harry H Towler, Jr, USAF. Survived by his widow, Mrs Marybell P Towler; one daughter, Antoinette P Taylor; one son, Hunt P Towler; and his mother, Mrs Harry H Towler, sr, 204 Bushnell Ave, San Antonio, Tex.

WALLIS—Died Hialeah, Fla 7 Sep Col Severn T Wallis, 3d, USA-Ret.

WARD—Died 5 Oct Lt (jg) James R Ward, USNR.

WOLCOTT—Died 12 Sep Lt Col Roger D Wolcott, Ret.

Journal Classified

Service families will find it helpful to consult these selected listings of sales and services.

Rates are 14 cents per word (minimum \$1.50). Deadline is 5 p.m. Tuesdays. Payment must accompany insertions. Write the Army Navy Air Force Journal, 1710 Connecticut Avenue, N.W., Washington 9, D. C.; or in the local area, phone HObart 2-1220, and ask for Mrs. Howard.

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Army Falls Behind AF & Navy In Experience At Top Levels

From first page—

Force's junior officer is Lt. Gen. Emery S. Wetzel, CofS of the U. N. Command CofS of U. S. Forces Korea. A '29 USMA classmate of General Smith, the Air Force's junior four-star officer, General Wetzel will be 52 on 21 October.

Lt. Gen. Bernard A. Schriever, who heads the Air Research and Development Command, was 49 last month.

The Army's youngest three-star officer is Lt. Gen. Paul D. Adams, USMA '28. Commander of V Corps in Germany, he is 53.

The Navy's junior three-star officer, both in seniority and age, is VAdm. John T. Hayward, Deputy Chief of Naval Operations (Development). A graduate of the USNA '26 class, Admiral Hayward will be 51 on 15 November.

In the years immediately after WWII and through Korea, the Army had the edge in terms of "experience" of officers in three and four-star assignments.

But this has completely changed now. It is the Air Force which has the

"veteran" officers when it comes to years of service in three and four-star posts.

This gives the Air Force an increased advantage when the time comes for the Secretary of Defense and the President to choose officers for top assignments.

Lt. Gen. Oliver S. Picher, USAF, Director of the Joint Staff of the JCS, who joined the Service after graduation from Harvard in 1928, was 54 last January. He has served with the JCS since June 1955 and has held three-star rank since 1 April 1958.

An Army officer today commands only one of the six unified commands. He is Lt. Gen. Ridgley Gaither, CInC of the Caribbean Command at Quarry Heights, C. Z.

General Gaither, 56, the honor graduate of St. John's College, Annapolis, in '24, has been a lieutenant general since July 1956.

It would seem likely that General Gaither will be designated in the not distant future for a four-star billet.

There are no scheduled four-star va-

cancies in the Army, but there is much speculation that General Bruce C. Clarke, head of the Continental Army Command at Ft. Monroe, Va., and General I. D. White, who commands U. S. Army Pacific, may seek retirement.

General Clarke, USMA '25, is 58; General White, a Norwich University graduate, is also 58.

Paradoxically, one reason that the Air Force is able to give officers more years of service in three and four-star billets—aside from its willingness to promote officers to these ranks at younger ages than the other Services—is its retirement policy.

The Army normally permits its general officers who have 35 years service and 5 years in permanent grade of major general to serve until age 60.

The Air Force policy, as was demonstrated this summer with the retirement of General Earl E. Partridge, 59 and General O. P. Weyland, 57, is to retire general officers when they have "35 and 5," regardless of age.

There is a strong feeling in the Army,

particularly among younger general officers, but also in other ranks—that the Army would do well to reduce the emphasis on seniority and demonstrated performance in making top-rank promotions in favor of adding greater relative stress to "potential future service."

It will be interesting to see whether General Lemnitzer will propose to Secretary Brucker that the approach to general officer selections be modified.

Lt. Col. Winchester Commands MACS-8

Lt. Col. Eugene H. Winchester has assumed command of Marine Air Control Squadron 8 of MAG-32, based at MCAAS Beaufort, S. C.

He relieved Maj. Dean Caswell who took the post of Squadron Executive Officer. Colonel Winchester, his wife, the former, Miss Mildred Louise Stauffer of Vinton, Iowa, and their four children, Eugene H., Jr., 15, Pamela, 10, Mary Louise, 4½, and John W., 3, reside in Laurel Bay.

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More Dollar Help For School Courses

From first page—

on Education is preparing a special report. It will ask that the assistance be increased to a maximum of \$11.25 for each semester hour of credit.

The increased tuition aid could add as much as \$1 million to the Air Force budget. Other Services would be similarly affected by increased budget needs to fund the expanded program.

The subcommittee, under President Elvis Star of the University of West Virginia, also will seek uniformity in tuition aid payments when budget restrictions prevent granting the full amount allowable under the law.

In such cases, the subcommittee will recommend that each Service establish a uniform rate of payments, somewhere under the \$11.25 maximum for all their members being schooled under the program.

This will be an easy matter for the Marine Corps, which controls its tuition assistance grants directly from Washington.

It will be more difficult for the other Services, which have decentralized tuition assistance fiscal control to their commands.

Even with the present \$7.50 limitation, some Services have been put in the position where one command can pay the maximum \$7.50 per credit grant, while others must restrict their aid to smaller sums in order to remain solvent.

The new plan will propose that the Services which can afford to pay the maximum should pay it, while other Services should at least keep the reduced payments consistent among all their members.

Final drafts of the new tuition assistance plan are expected to be completed before the end of the year. Before becoming effective, the new rules must be approved by Assistant Secretary of Defense for Manpower, Personnel and Reserve, Charles C. Finucane.

Pennon Electronics, Inc., Bell Gardens, Calif., has received a contract from **Automotive Division of North American Aviation** for manufacture of custom magnetic regulated power supplies used in ground checkout operations for the intercontinental missile.

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Sergeant Missile Takes To Air

ABERDEEN PROVING GROUND, MARYLAND

THE Army has demonstrated here how the Sergeant missile can be air-transported anywhere in the world to give added fire support to three STRAC divisions.

The Army also disclosed that the Sergeant could be guided with pin point accuracy to its target on a modern battle field.

These and other details of the Sergeant missile system were unveiled at the Annual Army Ordnance Association meeting. Participants saw a "Sergeant" team go through an emplacement drill with the weapon—the first public demonstration of the versatile Sergeant system.

The 36-foot long Sergeant, powered by Thokol solid motors is capable of carrying nuclear and other warheads and can be flown anywhere to accompany STRAC. Robert J. Parks, Sergeant Project Director at the California Institute of Technology Jet Propulsion Laboratory, Pasadena, Calif., made public for the first time the use of the "drag breaks" on the "Sergeant."

J.P.L. was assigned technical cognizance of Sergeant under the direction of the Army Rocket and Guided Missile Agency for Army Ordnance Missile Command. Sperry Utah Engineering Laboratories, Salt Lake City, Utah was selected as the contractor to work under the direction of J.P.L. during the research and development phase and ultimately to produce the missile.

"Sergeant was designed," said Mr. Parks, "to provide the Army with a weapon that approaches conventional artillery in mobility, ease of operation, speed of emplacement and displacement, lack of complexity and minimum demands for specialized training for the artillerymen who fire it."

"Through integrated design, use of its guidance system, and the use of a propulsion system that does not require fueling in the field, the number of vehicles normally associated with a ballistic guided missile operation have been reduced to a minimum."

Key Leaves Fairchild

William G. Key has resigned as Director of Public Relations of the Fairchild Engine and Airplane Corporation effective 1 November 1959.

SAC Vice-Chief Tells Transport Group How Minuteman Will Ride Railroads

Air Force plans to develop a travelling Minuteman were told this week to delegates attending the meeting of the National Defense Transportation Association in Seattle, Wash.

Explaining the Strategic Air Command's need for mobility and dispersion, SAC Vice Commander Lt. Gen. Francis H. Griswold told Association members that the development of a mobile configuration of the Minuteman, using rail transportation, is now in progress.

He said that the mobile missile trains for this solid-fuel ICBM would use existing rail facilities.

General Griswold said that he could not give all the details on the planned Minuteman mobility. He did, however, elaborate on the potential application of mating of this missile with the railroads.

"The number of missiles carried by each train could vary from one to several," General Griswold said.

He explained that the missile carrying train will be little different from normal trains in operation today. Most of the rolling units will be of an existing type, possibly with some modification.

"Of course," he said, "the car required to carry the missile and erect it for fir-

ing will be of special design. In addition to the freight portion of the train, living and dining cars for the SAC missilemen must be provided. These men will live with their weapon, on the road for approximately two weeks before returning to their home base.

"Our train with its missiles and crewmen will travel over the roadbeds of large areas of the countryside; but, the pattern of movement will be unpredictable—possibly it will stand on a siding for hours before moving on. Control of the train will be positively maintained from the command post at Headquarters SAC," General Griswold continued.

"A crew will be on constant alert and if the day comes when it becomes inevitable that we exchange fire with an enemy—the rail mobile portion of the SAC force will be prepared and capable to hit those targets assigned to it."

General Griswold stressed that the missile train would be completely safe.

"We feel the safety record of the railroads speaks for itself," he said. "If we thought that undue risk was involved in an operation of this type the idea would have been scrubbed on the drawing boards."

Missile Action In The Fighting Forces

Francis E. Warren AFB, Wyo., has received its first Atlas ICBM from the Convair Astronautics Division, San Diego. The missile will be used to check the compatibility of the facilities and ground support equipment which have been built and installed at Warren Missile Annex One.

Eight senior Italian Air Force Officers have become the first Allies to complete training in the maintenance and use of the Jupiter IRBM at the Army Ordnance Guided Missile School, Huntsville, Ala. Brig. Gen. Jerry D. Page, Deputy CofS for Technical Training of the Air Training Command, Randolph AFB, Tex., and Col. Luigi Violante, Air Attache of the Italian Embassy in Washington, were principal speakers as the pioneer class was graduated on 6 October. Col. Charles W. Eifer, Commandant of the Missile School, introduced both speakers.

Two Italian Air Force colonels, three lieutenant colonels and three majors were members of the first Allied class to be trained on the Jupiter, developed by the Army at Redstone Arsenal and assigned to the Air Force for operational deployment.

VAdm. John Sylvester, Commander, Pacific Fleet, Amphibious Force, was the principal speaker at the launching of a new guided missile ship, the Mahan (DLG 11) 7 October at the U. S. Naval Shipyard, San Francisco. Mrs. Smith, wife of Vice Admiral Harold Page Smith, Chief of Naval Personnel, performed the traditional christening honors. Designated as an escort guided missile frigate, the Mahan is named after Admiral Alfred Thayer Mahan, famous 19th century naval historian and theoretician. The Mahan's weapon system includes Terrier missiles.

Fruehauf Names Missile Product Division V.P.

Appointment of Mr. Alexander Black as Vice President and General Manager of the Missile Products Division—West Coast, is announced by Mr. H. E. Foulkrod, Executive Vice President of Fruehauf Trailer Company, Detroit.

Mr. Black will make his headquarters at the Los Angeles Plant of the Fruehauf Trailer Company, which has four plants on the West Coast, three of them devoted to the production of ground handling equipment for the aircraft and missile industry.

Mr. Black was formerly Vice President in charge of sales for the Rheem Manufacturing Company's Defense and Technical Products Division, Downey, Calif.

Mr. Foulkrod said, "The establishment of a separate Fruehauf Missile Products Division will enable us to place an increased emphasis on the field of ground support equipment for the missile industry."

Before his service in the Army Air Force during WWII, Mr. Black was assistant secretary and treasurer of Pacific Lighting Corporation in Los Angeles. Mr. and Mrs. Black and their three sons live at 885 East Avocado Crest Drive, La Habra, Calif.

Port Engineer At Aberdeen

Lt. Col. Arthur E. Makhom has been named Post Engineer at Aberdeen Proving Ground, Md., after duty at the Infantry School, Ft. Benning, Ga., teaching engineer tactics and organization.

Navy Awards Contract For Army Missile Device

The Naval Training Device Center, Port Washington, N. Y., has announced the award of a contract to Aircraft Armaments, Inc., Cockeysville, Md., for the design and development of an operational trainer for the Army's Sergeant Weapon System.

The Sergeant, a solid propellant surface-to-surface missile, was developed by Jet Propulsion Laboratory and is being manufactured by Sperry Rand Corporation's Salt Lake City facilities.

The Sergeant training device includes an all-plastic simulated structure to be manufactured under subcontract to Atkins & Merrill, Inc., of Marlboro, Mass.

Raytheon Awards Tartar Contract To Republic

A \$200,000 follow-on order for additional plastic radar reflectors for Tartar missile installations aboard Navy ships has been awarded Republic Aviation Corporation by the Raytheon Company.

The oval-shaped reflector, about eight feet in diameter, is constructed of a reinforced plastic developed and formulated at Republic. Austin B. Speed, Director of Sales for Republic's Special Products and Services Division, said the reflectors, each weighing only 325 pounds, have greater strength for their size than any other plastic reflector manufactured.

INDUSTRY IN DEFENSE

New Recoilless Rifle Can Kill Any Tank



THIS is the Army's new shoulder-fired 90mm recoilless rifle—capable of destroying the heaviest tanks. The 35-pound four-foot-long Medium Assault Weapon is designed for use by two-man Infantry teams, but can be loaded and fired by a single soldier in an emergency.

The 90mm rifle can fire a shaped charge for armor penetration and has an effective range of 500 yards—more than twice that of the bazooka. Up to now, the Army's biggest shoulder-fired recoilless rifle has been the 47-pound 57mm weapon.

A round of ammunition for the new rifle weighs 9 pounds. Elimination of recoil is achieved by exhausting gasses from a nozzle at the rear of the weapon.

Design, engineering and overall direction of system development on the new rifle was carried out at Frankford Arsenal, Philadelphia. Component development and other work on the rifle was carried out by Midwest Research Institute, Kansas City, Mo.; Arthur D. Little, Inc., Cambridge, Mass.; Aberdeen Proving Ground, Md.; Picatinny Arsenal, Dover, N. J.; Canadian Armament Research and Development Establishment, Quebec, Can.; the Diamond Ordnance Fuze Laboratory, Bethesda, Md., and Firestone Tire and Rubber Company, Akron, Ohio.

M/G Rumaggi Joins Texas Instruments

MAJ. Gen. Louis Rumaggi, USA-Ret., has joined Texas Instruments Incorporated of Dallas as Manager, Central Services Section, in the Central Marketing Division.

S. T. Harris, Vice President-Marketing, noted that General Rumaggi, USMA '22 goes to Texas Instruments after a distinguished career of 37 years with the Army Engineers. An early military assignment was with the Army's Battle Monuments Commission in Paris which was charged with construction projects commemorating WWI dead. After various peacetime assignments, he saw WWII service in the Southwest Pacific theatre where he commanded engineering units and advanced to Deputy and Acting Chief Engineer for all Army forces in the theatre.

During the Korean conflict, General Rumaggi served as Deputy CofS with the IX Corps and then commanded all engineering forces with the Eighth Army.

His post-Korean assignment included CofS, Sixth Army, at the Presidio of San Francisco, and Division Engineer, North Central Division, at Detroit. During this assignment he was responsible for the civil work of the Corps of Engineers in the Great Lakes area, including the St. Lawrence Seaway construction projects.

At Texas Instruments, General Rumaggi will be responsible for office services, plant services, and new facilities. He will report to Vice President Harris.



Maj. Gen. Rumaggi

Douglas Creates New Transport Group

Douglas Aircraft Company has combined the engineering departments of its Santa Monica and Long Beach Divisions into a single Transport Aircraft Engineering organization with headquarters at Santa Monica.

Heading the combined organization, which will assume engineering responsibility for both military and civilian transport programs, will be E. F. Burton, Douglas Vice President of Transport Aircraft Systems. He will report directly to Douglas Senior Vice President-Engineering Arthur E. Raymond.

C. S. Glasgow, Chief Engineer at Long Beach, was appointed Deputy to Schuyler Kleinhans, who will be Chief Engineer of Transport Engineering. Mr. Kleinhans has been Chief Engineer of the Santa Monica Division.

L. W. Teel was appointed Military Transports Project Manager. Both Mr. Glasgow and Mr. Teel will establish offices at Santa Monica. J. H. Ryan was appointed Engineering Manager at Long Beach.

An immediate change in location will be the combining of Long Beach advanced design and Santa Monica advanced design at Santa Monica under G. F. Worley, with R. E. Bates and A. B. Croshere as assistants. The section will be concerned with both military and commercial transport aircraft systems.

Raytheon Gets Sperry Convair B-58 Award

Raytheon Company has been awarded contracts totaling \$38.9 million to produce search and Doppler radars for bombing-navigational systems of the Air Force's Convair B-58 Hustler.

The award, made by Sperry Gyroscope Company, is part of a \$142 million contract announced recently by that firm for production of inertial bombing-navigational systems and ground support equipment. Raytheon is a sub-contractor to Sperry in this program.

The funding covers equipment for the first SAC wing of 36 Hustlers. The Air Force has recently announced plans for a second wing. Raytheon's search and Doppler radars are part of a Sperry system which automatically navigates the B-58 with extreme accuracy anywhere over the globe. In addition, the navigation system controls precise release of atomic armament.

BENDIX REP.

Richard G. Gottschall has been appointed to represent Bendix-Pacific division of the Bendix Aviation Corporation with the Army, Navy and Air Force in Washington, D. C.

His appointment was announced by J. R. Harkness, Electronics Manager for the North Hollywood, Calif., firm. Mr. Gottschall's office is located at 1701 K Street.

Before joining Bendix-Pacific, he was with the Martin and Ingersoll-Rand companies. During WWII he served in Washington, Korea, Japan and Europe in the Army Ordnance Department.

Melpar Chief Will Confer With Cmdrs.

Meetings with top Service leaders in Europe will be included in the forthcoming tour of the European electronic industry by Mr. Thomas Meloy, President of Melpar, Inc., a subsidiary of Westinghouse Air Brake Company.

Primary aim of the trip will be to establish a Westinghouse research and development subsidiary in Florence, Italy.

To be known as Ricerca Scientifica Applicata, S.P.A., (Applied Scientific Research, Inc.) the subsidiary will be directed by Professor Guiliamo Toraldo di Francia, a Professor of Physics at the University of Florence. He is also a Vice President of the International Optical Society.

RSA will seek contracts with European and American companies for research and development on a consultant and product-development basis.

During Mr. Meloy's stay in Europe, he will visit with officials of the Mutual Weapons Development Center in Paris, the European Office of the Air Research and Development Command in Brussels, and with Lt. Gen. Paul D. Adams, USA, Commander of the V Corps, Frankfurt, Germany.

Mrs. Beech Joins Western Union Board

Mrs. Olive Ann Beech, President and Chairman of the Board of Beech Aircraft Corporation, Wichita, Kans., has been elected a member of the Board of Directors of Western Union Telegraph Company.

Mrs. Beech succeeds Mrs. Madeline Edison Sloane, daughter of Thomas A. Edison and first woman board member of Western Union or any other major communications company, who served for nine years.

Pointing out that Western Union has a large proportion of women among its employees, stockholders and customers, President Walter P. Marshall stated that the election of Mrs. Beech would assure continued recognition of the woman's viewpoint and broadening interests.

Aluminum Armor Ordered For Tanks

Food Machinery and Chemical Corporation Ordnance Division has placed initial orders for aluminum ballistic armor plate to be used in the first production models of the M-113, the Army's new lightweight personnel carrier.

The plate is high strength, weldable aluminum alloy 5083, developed by Kaiser Aluminum & Chemical Corporation.

An armored, amphibious tracked vehicle which weighs about nine tons, the M-113 will replace the Army's present 20-ton steel M-59 carrier. FMC was recently awarded a \$34.6-million contract to produce the vehicles.

Kaiser Aluminum worked closely with FMC in testing and demonstrating the properties of alloy 5083 during the development of prototype models. The design and development program leading to the M-113 was carried out under contract with the Army's Ordnance Tank Automotive Command.

Lockheed Jet Star Chosen By Air Force

The Air Force has selected the Lockheed Model 329 JetStar, a 600-mile-per-hour utility jet, for use in training bombardier-navigators.

The announcement stated the Air Force has expected to purchase a small jet aircraft for use as a navigational trainer. The Lockheed Model 329 and the McDonnell Model 119A have been in competition to meet this Air Force requirement. Both aircraft were developed on company funds and both have been flown with prototype power plants.

The Air Force announced its selection of the Lockheed aircraft, but whether procurement of any of the Lockheed aircraft will be undertaken during the government fiscal year 1960 will be determined only after further examination of this requirement in relation to other programs and available resources, the USAF stated.

Selection of the JetStar came after testing by Air Force pilots and study by Air Force evaluators of the Lockheed plane and the competing jet utility aircraft.

Comparable in size to the Lockheed Lodestar or the DC-3, the JetStar is 58.8 feet long, 20.5 feet high, and has a wing span of 53.7 feet. It normally cruises at 500-600 miles per hour and flies to altitudes of 45,000 feet. It is pressurized and air-conditioned for all-weather flying. It has a non-stop range of 3,000 miles. It will fly two-to-three times as fast as propeller-driven planes now in military and corporate fleets. Production models will take-off and land in less than 2,000 feet of runway.

Four Pratt and Whitney JT-12 jet engines power the JetStar.

Louisville Cap V. P.

Morton Gluckmann has been named Vice President in charge of Marketing for Louisville Cap Corporation, 301 South 30th St., Louisville, Ky. He joined the firm in 1957 as Sales Manager for the Military Headwear Division. Louisville Cap Corporation manufactures military headwear exclusively, selling directly to Army and Air Force Post Exchanges throughout the world, as well as to military departments of foreign governments.

LITTLE JOHN FLYS

ABERDEEN PROVING GROUND, Md.

Little John teamed up with Vertol Aircraft Corporation here 8 October to demonstrate the speed and versatility of the Army's modern firepower.

In just under 12 minutes from touchdown to the flyaway of crew and equipment, the Army's Little John rocket with its crew was unloaded from Vertol's 107 prototype helicopter, set in place and launched.

The marriage of Little John with the helicopter allows cross country movement to the launch site at speeds up to 150 miles an hour. Since the rocket is carried on its launcher, it can be fired minutes after landing.

The Vertol 170 is the prototype for the YHC-1A and Army's Chinook helicopters.

Bulova Expands Missile Test Capability

More than \$300,000 in new environmental and electronic equipment has been added to the Engineering Test Department of Bulova Research & Development Laboratories, Inc., for testing of missile warhead safety and arming systems and other high-reliability devices.

Bulova holds a contract for developing the safety and arming system and other devices for the Pershing ballistic missile, and contracts for Corvus, Terrier, Talos, Sidewinder and others. The organization is located in Woodside, Long Island, N. Y., and is a subsidiary of Bulova Watch Company, Inc.

Army Set For Field Tests Of 26,000 Pound Twin-Engine de Havilland Caribou

DOWNSVIEW, ONTARIO
CANADA

Pentagon Officials Attend Ceremony

These are the military and civilian officials who accompanied Lt. Gen. Arthur G. Trudeau, Army Chief of Research and Development, to Canada for the 8 October delivery of the first de Havilland Caribou.

Dr. Ellis Johnson, Civ. Director, Operations Research Office.

Mr. Sidney A. Singer, Civ. Office, Secretary of Defense (COMP).

Mr. Harry Hull, Civ. Office, Under Secretary of the Army, Office of Analysis and Review.

Brig. Gen. R. D. Meyer, Deputy Chief of Transportation (Aviation).

Brig. Gen. F. H. Britton, Director of Developments, OCRD.

Brig. Gen. C. F. Von Kann, Director of Army Aviation, ODCSOPS.

Col. J. J. Tolson, III, Deputy Director of Army Aviation, ODCSOPS.

Col. W. Scandrett, Chief, Communications-Electronics Div, OCRD.

Col. W. E. Downing, ODCSLOG.

Col. R. R. Williams, Chief, Air Mobility Division, OCRD.

Col. J. E. Shirley, Chief, Technical Liaison Office, OCRD.

Col. G. W. Dickerson, Chief, Plans Division, OCRD.

Col. F. Meszar, Office, Asst Secretary of Army (FM).

Lt. Col. R. K. Moore, Office, Asst Secretary of Army (LOG).

Lt. Col. H. G. Moore, Air Mobility Division, OCRD.

Maj. J. C. Geary, Air Mobility Division, OCRD.

Col. J. R. Dale, FAA.

Escort officer was Maj. J. C. Geary.

through for the Army in winning authority for use of aircraft above the previously fixed 5000 pound limitation.

At Downsview, the flight demonstration was concluded with the short-field landing of a Caribou to take aboard, in less than one minute, 32 Canadian soldiers, who were then airlifted from a soggy turf.

Watching the Caribou demonstration with the U. S. Army officials were Canada's Deputy Minister of Defense Production D. A. Golden and Maj. Gen. J. V. Alard, Vice Chief of Staff of the Canadian Army.

De Havilland of Canada has invested about \$25 million in the Caribou project, with the Canadian Army allocating over \$2 million for prototype development.

HERE IS A PERFORMANCE SUMMARY made available to newsmen here by deHavilland officials. The performance figures are based on flight tests at 26,000 lbs. (11,780 kg) reduced to sea level, zero wind and level surface conditions. During single engine operation, the propeller of inoperative engine is feathered.

Take-Off & Landing: Short Field Technique

Take-off (Both engines at take-off power, flaps 30°)

Ground run 540 ft. 165 m

Total distance to clear 50 ft. obstacle 1020 ft. 311 m

Landing 525 ft. 160 m

Total distance from 50 ft. obstacle 1020 ft. 311 m

Take-Off & Landing: Airline Technique

Take-off (Both engines at take-off power, flaps 15°)

(unstuck speed = 1.2Vs₁)

Ground run 940 ft. 287 m

Total distance to clear 50 ft. obstacle 1570 ft. 479 m

Landing (Approach speed = 1.3 Vs₀)

Ground run (dry concrete) 715 ft. 224 m

Total distance from 50 ft. obstacle 1540 ft. 469 m

CAA Field Sizes

Balanced CAR 4b Take-off Field length 2560 ft. 780 m

Landing Field Length (1.67 x landing distance CAR 4b Technique) 2570 ft. 783 m

En Route Rate of Climb at Maximum Continuous Power (2 x 1200 BHP)

Sea Level: Both engines 1575 fpm 8.0 m/sec

Single engine 345 fpm 1.8 m/sec

5000 ft: Both engines 1560 fpm 7.9 m/sec

1525 m Single engine 330 fpm 1.6 m/sec

Service Ceiling (R/C = 100 fpm).

Both engines 27,700 ft. 8,441 m

Single engine 11,900 ft. 3,627 m

Absolute Ceiling (R/C = 0 fpm).

Both engines 29,100 ft. 8,870 m

Single engine 14,600 ft. 4,450 m

64 mph 103 kmh

Stalling Speed, EAS (Flaps landing)

Maximum Lean Mixture Cruising Speed

(2 x 725 BHP, 50% Take-off Power)

Sea Level (TAS) 170 mph 271 kmh

7500 ft. (2290 m) (TAS) 182 mph 292 kmh

Maximum Range 1450 sm 2253 km

Maximum Range

Payload-Range (Freighter Configuration)

Payload for: 200 sm 322 km

400 sm 644 km

600 sm 965 km

800 sm 1288 km

(Cruise at 7,500 ft. at 2 x 725 BHP, fuel for climb, cruise, descent & 45 min. reserve.)

Loadings

Wing loading 28.5/sq. ft. 139.0 kg/sq. m

Power loading 8.97 lb/bhp 4.11 kg/hp

Tire loading 38 psi 2.67 kg/sq/cm

Floor loading 200 lb/sq. ft. 976.4 kg/sq. m

Dimensions

Span 96 ft. 6 ins.

Overall length 72 ft. 7 ins.

Overall height 31 ft. 10 ins.

Cabin length 28 ft. 9 ins.

Cabin width (max) 87 ins.

Cabin width (floor) 73.5 ins.

Height (centre line) 75 ins.

Loading Door (rear) 73.5 x 75 ins.

Side Door 30 x 55 ins.

Propeller . . . Hamilton Standard constant speed full feathering 3 blade 43D50-

7059A-0.

AF Calibration Symposium Draws Industry Interest

The Air Force gathered all the interested calibration equipment manufacturers under one roof when about 500 contractor representatives met last week at the Engineers Club, Dayton, Ohio, for the first Calibration Symposium.

Sponsored by Dayton Air Force Depot, the three day symposium focused attention on the DAFD facilities being established for the Heath Maintenance Annex at Newark, Ohio, in such areas as infrared, star tracking, inertial guidance and electro-mechanical measurements.

Brig. Gen. C. E. Jung, Depot Commander, delivered the welcoming address. He was followed by Col. Herbert E. Johnson, Jr., Director of Maintenance Engineering.

DAFD is the home of the Air Force Bureau of Standards.

During the symposium, manufacturers of electrical, electronic, electro-mechanical and dimensional calibration equipment were told of the USAF requirements in the precise field of calibration and certification, both for the present and the future.

In the past year, DAFD has spent about \$5.7 million in supplying base calibration standards for 168 Air Force Bases throughout the world. How much more must be spent depends upon both the Air Force needs and industry's capability for satisfying those needs.

As an extra benefit to both the Air Force and industry, the symposium enabled the Depot to revise its Interested Bidders List for calibration equipment. This list designates manufacturers of the equipment bought by DAFD for the Calibration Program.

RAdm. Metzger New Contract Chief

RAdm. Edward F. Metzger, SC, who has been Assistant Chief of the Bureau of Supplies and Accounts for Supply Management, will be the first Assistant Chief of Naval Weapons for Contracts in the Bureau of Naval Weapons.

He will be succeeded in November by Capt. Herschel J. Goldberg, SC, a flag selectee, who commands the Electronics Supply Office at Great Lakes, Ill.

Admiral Metzger will have responsibility for supervising contracts worth billions of dollars each year.

As reported in last week's issue of THE JOURNAL, which told of a new organization for the Bureau of Naval Weapons, RAdm. Paul D. Stroop, Chief, and his associates will be responsible for about 40 per cent of the Navy's total budget.

RAdm. Hazlett P. Weatherwax will be the first Inspector General and an Assistant Chief of the Bureau, effective in December. He will be relieved as Commander, Destroyer Flotilla One by Rear Adm. Joseph W. Leverton, Jr.

Dr. Beam Chosen Hallicrafters V.P.

Dr. Robert E. Beam, Professor of Electrical Engineering at Northwestern University, has been named Vice-President in charge of Research and Development for the Hallicrafters Company, Chicago electronics manufacturer.

William J. Haligan, President and Board Chairman, said Dr. Beam's appointment "marks a significant step forward in Hallicrafters history. The research and development department of the company is newly organized. Dr. Beam's mission will be to develop a strong group of technical people who will advise company executives of the latest technical management and scientific developments pertaining to all of Hallicrafters electronics business."

Dr. Beam, who will continue in his present capacity at Northwestern, received his electrical engineering degree from Ohio State University in 1937 and his doctorate from Iowa State in 1940. He is one of the founders of the Na-



Dr. Beam

tional Electronics Conference and has served as a vice-president and director. In recent years he has been active in the direction of research on microwave projects and on communication circuitry for the Army Signal Corps at Northwestern.

Nortronics Names Research Director

Dr. K. N. Satyendra has been appointed Director of Research for the Electronic Systems and Equipment Department of Nortronics by Dr. William F. Ballhaus, Vice President and General Manager.

Nortronics is a division of Northrop Corporation.

Dr. Satyendra will direct studies and research in the applied sciences and technologies directly relating to space electronics according to Frederick Stevens, Manager, Nortronics Electronic Systems and Equipment.

Dr. Satyendra's most recent position involved direction of Long Range Research and Development Programs in Space Technology for the Advanced Systems Planning Group of Westinghouse Defense Products. He joined Westinghouse in 1954 as a member of the Air Arm division and was principal investigator in many weapon systems studies. He was a lecturer in space technology at the Air Arm Technical Institute.



NEW CAT POWER SHIFT TRANSMISSION FOR D9 AND D8 TRACTORS



- Shifts on-the-go under full load in a split-second!
- Changes speed, reverses direction with finger-tip control lever—and no clutching!
- Increases production on any application!

The wraps are off—it's ready. After many years of research and on-the-job testing, Caterpillar now offers a revolutionary new transmission option for D9 and D8 Tractors—*power shift*! Built for heavy-duty tractor service, this new transmission—with an exclusive design—provides production highs never before possible with a track-type tractor. Here's why:

1. It combines for the *first* time the flexibility and anti-stall features of a torque converter with the operating snap of direct drive. And because of its direct drive char-

acteristics, it is more efficient than other power shift designs.

2. With one control lever and no clutching, it reverses direction . . . changes speed . . . smoothly . . . under full load . . . in a fraction of a second.

Talk about productivity—the Cat power shift transmission delivers plenty of power . . . fast . . . in the highest gear possible. And shifting is so easy the operator just naturally gets more work out of the tractor. What's more, he gets it on the toughest, most demanding jobs.

Caterpillar power shift transmission comes to you thoroughly tested by exacting design and demanding field work in the heaviest earthmoving duty. In addition, you also have your choice of direct drive or torque converter in the D9 or D8. Whatever your application, Caterpillar has the most productive machine to match the job.

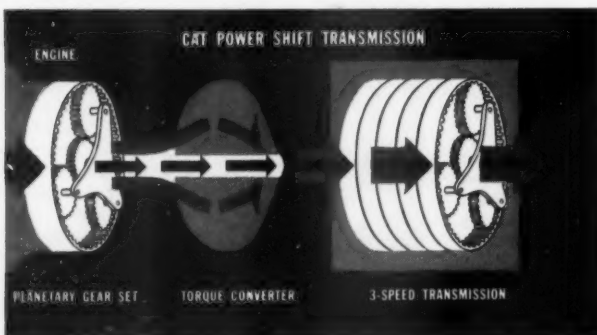
Caterpillar Tractor Co., Peoria, Illinois, U. S. A.

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DIESEL ENGINES • TRACTORS • MOTOR GRADERS
EARTHMOVING EQUIPMENT

**BORN OF RESEARCH
PROVED IN THE FIELD**



BASIC DESIGN: Total power is transmitted from the engine to a planetary gear arrangement mounted in the engine flywheel. The planetary divides and directs the total power—part goes through a direct drive shaft straight to the transmission and the remainder through a torque converter to the transmission. This division of power retains the best features of both direct and torque converter drive tractors and delivers unexcelled performance on the toughest jobs.

***CATERPILLAR'S NUMBER ONE PROJECT:** a multimillion-dollar research program—to meet the continuing challenge of the greatest construction era in history with the most productive earthmoving machines ever developed.